Form 3160-3
(August, 2007)

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-01188

6. If Indian, Allottee or Tribe Name
UTE Tribe

1a. Type of Work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.
891008900A

1b. Type of Well: [ ] [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone

8. Lease Name and Well No.
NBU 921-15G2S

2. Name of Operator
Kerr-McGee Oil & Gas Onshore, LP

9. API Well No.
43-047-40236

3a. Address
P.O. Box 173779
Denver, CO 80217-3779

3b. Phone No. *(include area code)*
720.929.6226

10. Field and Pool, or Exploratory
Natural Buttes Field

4. Location of well *(Report location clearly and In accordance with any State requirements.*)*
At surface 838 FNL 2631 FEL NW NE 624800X 4433130Y 40.041063 -109.537139
At proposed prod. zone 1463 FNL 2355 FEL SW NE 624888X 4432941Y 40.039349 -109.536145

11. Sec.,T.,R.,M.,or Blk.and Survey or Area
Sec 15 T 9S R 21E

14. Distance in miles and direction from the nearest town or post office*
12.9 miles southeast of Ouray, Utah

12. Cou State
Uintah Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
838'	800	20
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	**19. Proposed Depth**	**20. BLM/ BIA Bond No. on file**
50'	10,178'	RLB0005239
21. Elevations (Show whether DF. RT, GR, etc.)	**22. Aproximate date work will start***	**Esti mat**
4792' GR	Upon Approval	10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lan SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by existing bond on file(see item 20 above).
5. Operator certification.
6. Such other site specific information and/ or plans as may be required by t authorized officer.

25. Signature
Name *(Printed/ Typed)* Kevin McIntyre
Title Regulatory Analyst

RECEIVED
JUL 15 2008
DIV. OF OIL, GAS & MINING

Approved By *(Signature)* 07-31-08
Name *(Printed/ Typed)* BRADLEY G. HILL
Title
Office ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

** (Instructions on page 2)*

Federal Approval of this Action is Necessary

NBU 921-15G2S
NWNE Sec. 15, T9S,R21E
UINTAH COUNTY, UTAH
UTU-01188

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1706'
Bird's Nest	2029'
Mahogany	2409'
Wasatch	5104'
Mesaverde	7982'
MVU2	8950'
MVL1	9522'
TVD	10,100'
TD	10,178'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	1706'
	Bird's Nest	2029'
	Mahogany	2409'
Gas	Wasatch	5104'
Gas	Mesaverde	7982'
Gas	MVU2	8950'
Gas	MVL1	9522'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

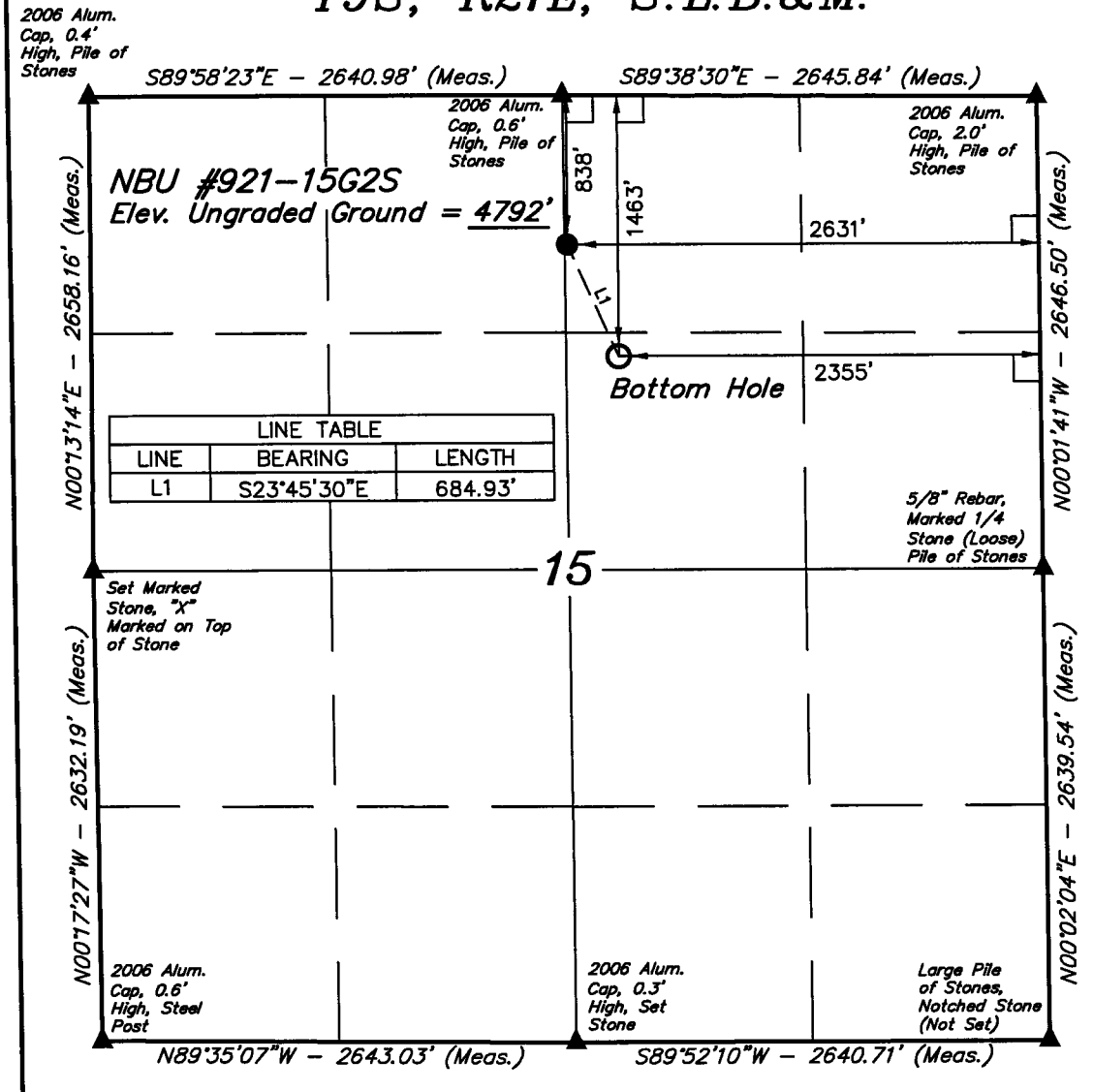
4. **Proposed Casing & Cementing Program:**

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

T9S, R21E, S.L.B.&M.



Kerr-McGee Oil & Gas Onshore LP

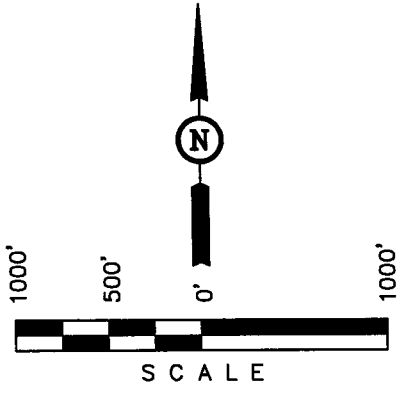
Well location, NBU #921-15G2S, located as shown in the NW 1/4 NE 1/4 of Section 15, T9S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

BASIS OF BEARINGS

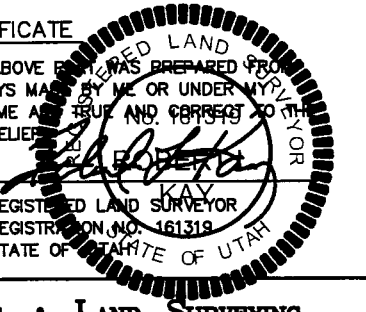
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH



UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 05-14-08	DATE DRAWN: 05-21-08
PARTY: L.K. N.W. C.C.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: Kerr-McGee Oil & Gas Onshore LP	

LEGEND:

- ∟ = 90° SYMBOL
- ● = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°02'21.69" (40.039358)	LATITUDE = 40°02'27.88" (40.041078)
LONGITUDE = 109°32'12.69" (109.536858)	LONGITUDE = 109°32'16.24" (109.537844)
NAD 27 (TARGET BOTTOM HOLE)	**NAD 27 (SURFACE LOCATION)**
LATITUDE = 40°02'21.82" (40.039394)	LATITUDE = 40°02'28.01" (40.041114)
LONGITUDE = 109°32'10.21" (109.536169)	LONGITUDE = 109°32'13.76" (109.537156)

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,100' TVD, approximately equals 6262 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4040 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

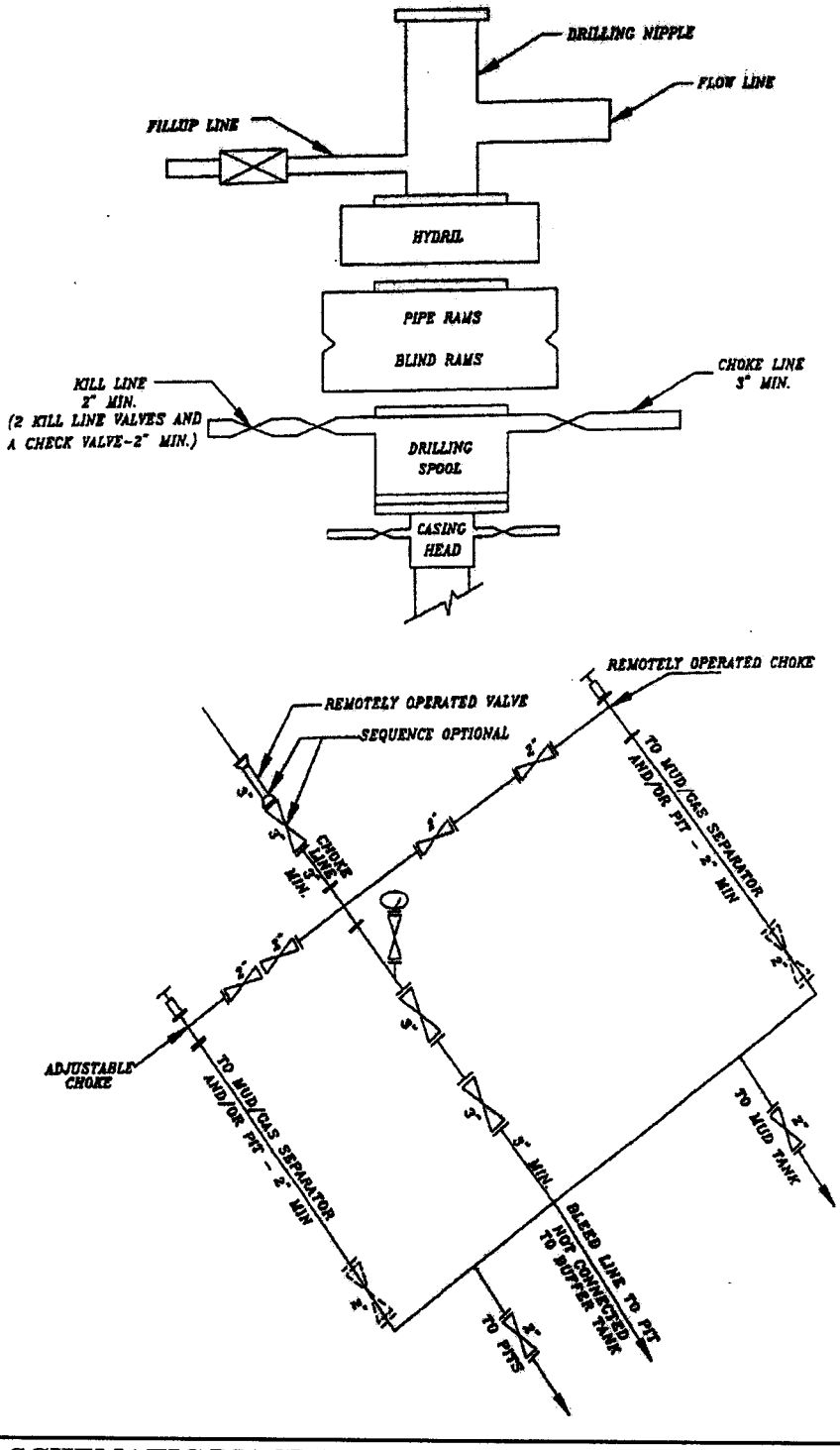
Please see Natural Buttes Unit SOP. Please see Kerr McGee's sundry regarding variance request to Onshore Order #2 regarding Air drilling for surface casing.

10. **Other Information:**

Please see Natural Buttes Unit SOP.

NBU 921-15G2S

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

NBU 921-15G2S
NWNE Sec. 15 ,T9S,R21E
UINTAH COUNTY, UTAH
UTU-01188

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. **Planned Access Roads:**

No new access road is planned, as this is a twin location. Refer to Topo Map B.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

No new pipeline, as we will be utilizing the existing NBU #298 pipeline. No TOPO D attached.

Please see the Natural Buttes Unit SOP.

Variances to Best Management Practices (BMPs) Requested:

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the

original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E,Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E *(Request is in lieu of filing Form 3160-5, after initial production).*

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. Plans for Reclamation of the Surface:

Please see the Natural Buttes SOP.

upon reclamation of the pit the following seed mixture will be used. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for ***drilled*** seed are:

Crested Wheatgrass 12 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Stipulations

Wildlife Stipulations:

- Antelope Stipulations:
  No construction from May 15 through June 20.

Critical Soils Stipulations:

No construction when wet.

13. Other Information:

A Class III archaeological survey and a paleontological survey have been performed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

14. Lessee's or Operator's Representative & Certification:

Kevin McIntyre
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6226

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435) 781-7018

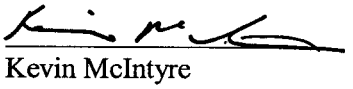
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



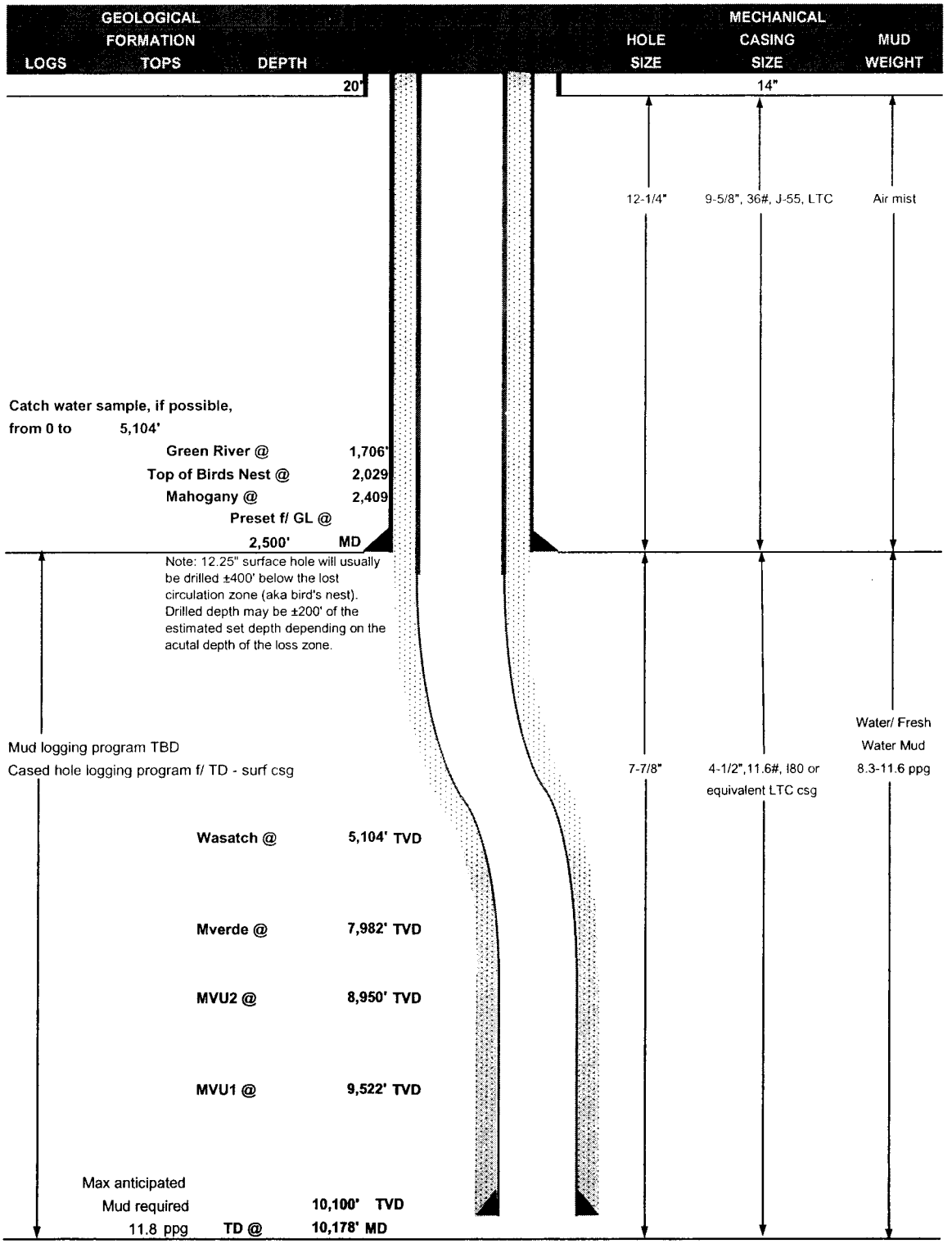
Kevin McIntyre

7/10/2008
Date

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	July 10, 2008	
WELL NAME	**NBU 921-15G2S**		TD	10,100' TVD	10,178' MD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	ELEVATION	4,792' GL	KB 4,807'
SURFACE LOCATION	NWNE 838' FNL & 2631' FEL, Sec. 15, T 9S R 21E				
	Latitude: 40.041114	Longitude: -109.537156		NAD 27	
BTM HOLE LOCATION	SWNE 1463' FNL & 2355' FEL, Sec. 15, T 9S R 21E				
	Latitude: 40.039394	Longitude: -109.536169		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA(SURFACE), UDOGM, Tri-County Health Dept.				



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3520	2020	453000
SURFACE	9-5/8"	0 to 2500	36.00	J-55	LTC	0.89	1.73	6.41
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10100	11.60	I-80	LTC	1.96	1.02	1.95

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 4040 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,598'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	40%	11.00	3.38
	TAIL	5,580'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1370	40%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____

Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

Weatherford

Drilling Services

Proposal

Anadarko Kerr McGee

ANADARKO - KERR McGEE

NBU 921-15G2S

UINTAH COUNTY, UTAH

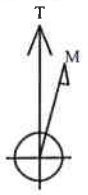
WELL FILE: PLAN2

DATE: JUNE 30, 2008

Weatherford International, Ltd.
15710 John F. Kennedy Blvd
Houston, Texas 77032 USA
+1.281.260.1300 Main
+1.281.260.4730 Fax
www.weatherford.com

ANADARKO KERR MCGEE OIL & GAS
NBU 921-15G2S
UINTAH COUNTY, UTAH

Anadarko | KerrMcGee | Weatherford



Azimuths to True North
Magnetic North: 11.50°

Magnetic Field
Strength: 52673nT
Dip Angle: 65.97°
Date: 6/26/2008
Model: bggm2007

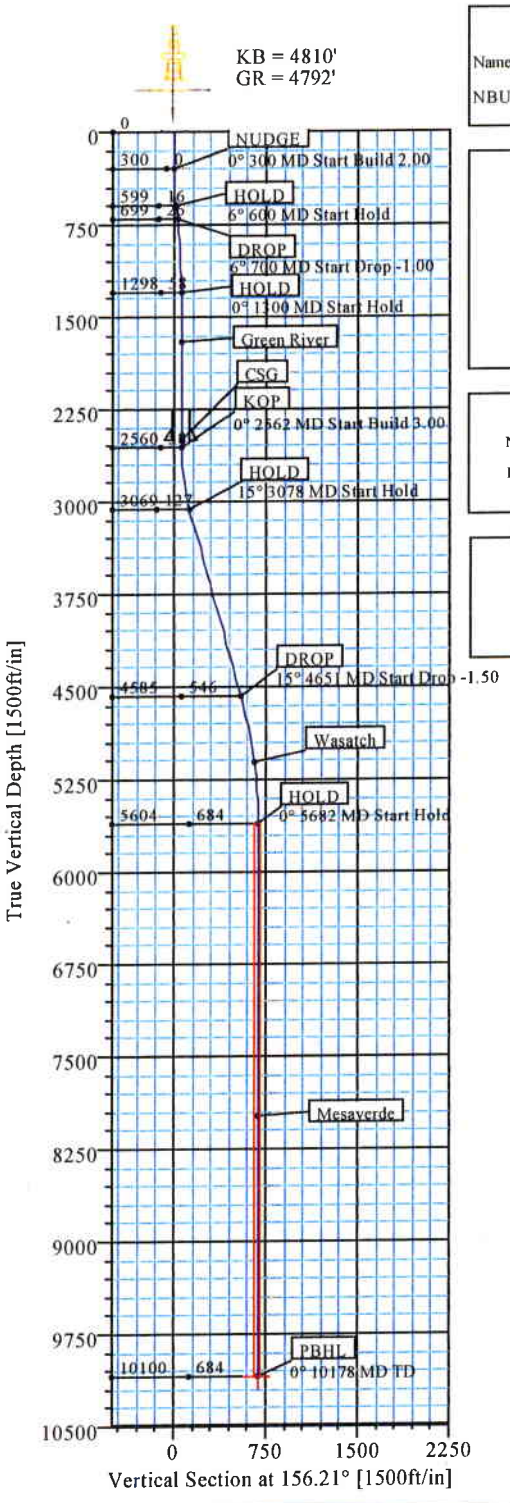
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	156.21	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	156.21	300.00	0.00	0.00	0.00	156.21	0.00	
3	600.00	6.00	156.21	599.45	-14.36	6.33	2.00	156.21	15.69	
4	700.00	6.00	156.21	698.90	-23.92	10.55	0.00	0.00	26.15	
5	1300.00	0.00	156.21	1297.81	-52.65	23.21	1.00	180.00	57.53	
6	2562.19	0.00	156.21	2560.00	-52.65	23.21	0.00	336.21	57.53	
7	3077.68	15.46	156.21	3069.26	-115.92	51.10	3.00	0.00	126.68	
8	4650.87	15.46	156.21	4585.49	-499.76	220.31	0.00	0.00	546.17	
9	5681.86	0.00	156.21	5604.00	-626.30	276.10	1.50	180.00	684.46	
10	10177.86	0.00	156.21	10100.00	-626.30	276.10	0.00	0.00	684.46	PBHL 15G2S

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
NBU 921-15G2S	-7.09	59.88	628050.51	2549504.74	40°02'28.010N	109°32'13.760W	N/A

KB = 4810'
GR = 4792'



FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	1706.00	1708.19	Green River
2	5104.00	5180.42	Wasatch
3	7982.00	8059.86	Mesaverde

FIELD DETAILS

UINTAH COUNTY, UTAH (NAD 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: Utah, Central Zone
Magnetic Model: bggm2007

System Datum: Mean Sea Level
Local North: True North

CASING DETAILS

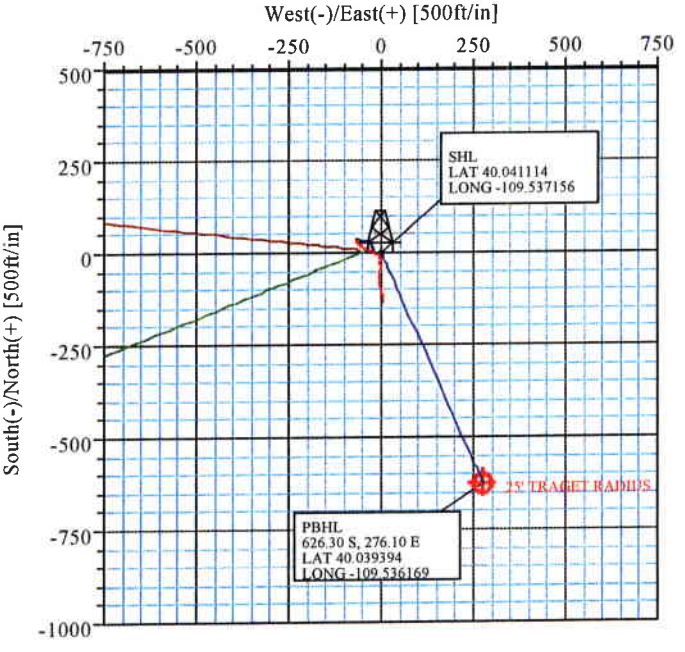
No.	TVD	MD	Name	Size
1	2500.00	2502.19	CSG	0.00

LEGEND

- EXISTING WELL 298 (1)
- NBU 921 15C4T (1)
- NBU 921-15D1S (1)
- NBU 921-15F2S (1)
- Plan #2

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL 15G2S	10100.00	-626.30	276.10	40°02'21.820N	109°32'10.210W	Circle (Radius: 25)



Plan: Plan #2 (NBU 921-15G2S/1)

Created By: Russell Joyner Date: 6/30/2008

Weatherford
WELL PLAN REPORT

Company:	Anadarko-Kerr-McGee	**Date:**	6/30/2008	**Time:** 14:54:35	**Page:** 1
Field:	UINTAH COUNTY, UTAH (NAD 27)	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Site:	NBU 921-15F PAD	**Vertical (TVD) Reference:**	SITE 4810.0		
Well:	NBU 921-15G2S	**Section (VS) Reference:**	Well (0.00N,0.00E,156.21Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Plan:	Plan #2	**Date Composed:**	6/26/2008
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Field:	UINTAH COUNTY, UTAH (NAD 27)		
Map System:	US State Plane Coordinate System 1927	**Map Zone:**	Utah, Central Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	bggm2007

Site:	NBU 921-15F PAD				
Site Position:		**Northing:**	628056.28 ft	**Latitude:**	40 2 28.080 N
From:	Geographic	**Easting:**	2549444.72 ft	**Longitude:**	109 32 14.530 W
Position Uncertainty:	0.00 ft			**North Reference:**	True
Ground Level:	4792.00 ft			**Grid Convergence:**	1.26 deg

Well:	NBU 921-15G2S				**Slot Name:**	
Well Position:	+N/-S	-7.09 ft	**Northing:**	628050.51 ft	**Latitude:**	40 2 28.010 N
	+E/-W	59.88 ft	**Easting :**	2549504.74 ft	**Longitude:**	109 32 13.760 W
Position Uncertainty:		0.00 ft				

Wellpath:	1			**Drilled From:**	Surface
				Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height**	4810.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	6/26/2008			**Declination:**	11.50 deg
Field Strength:	52673 nT			**Mag Dip Angle:**	65.97 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	156.21

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	156.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	156.21	300.00	0.00	0.00	0.00	0.00	0.00	156.21	
600.00	6.00	156.21	599.45	-14.36	6.33	2.00	2.00	0.00	156.21	
700.00	6.00	156.21	698.90	-23.92	10.55	0.00	0.00	0.00	0.00	
1300.00	0.00	156.21	1297.81	-52.65	23.21	1.00	-1.00	0.00	180.00	
2562.19	0.00	156.21	2560.00	-52.65	23.21	0.00	0.00	0.00	336.21	
3077.68	15.46	156.21	3069.26	-115.92	51.10	3.00	3.00	0.00	0.00	
4650.87	15.46	156.21	4585.49	-499.76	220.31	0.00	0.00	0.00	0.00	
5681.86	0.00	156.21	5604.00	-626.30	276.10	1.50	-1.50	0.00	180.00	
10177.86	0.00	156.21	10100.00	-626.30	276.10	0.00	0.00	0.00	0.00	PBHL 15G2S

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
300.00	0.00	156.21	300.00	0.00	0.00	0.00	0.00	0.00	0.00	NUDGE
400.00	2.00	156.21	399.98	-1.60	0.70	1.75	2.00	2.00	0.00	
500.00	4.00	156.21	499.84	-6.39	2.81	6.98	2.00	2.00	0.00	
600.00	6.00	156.21	599.45	-14.36	6.33	15.69	2.00	2.00	0.00	HOLD
700.00	6.00	156.21	698.90	-23.92	10.55	26.15	0.00	0.00	0.00	DROP
800.00	5.00	156.21	798.44	-32.69	14.41	35.73	1.00	-1.00	0.00	
900.00	4.00	156.21	898.13	-39.87	17.58	43.58	1.00	-1.00	0.00	
1000.00	3.00	156.21	997.95	-45.46	20.04	49.68	1.00	-1.00	0.00	
1100.00	2.00	156.21	1097.85	-49.45	21.80	54.04	1.00	-1.00	0.00	
1200.00	1.00	156.21	1197.81	-51.85	22.86	56.66	1.00	-1.00	0.00	
1300.00	0.00	156.21	1297.81	-52.65	23.21	57.53	1.00	-1.00	0.00	HOLD
1400.00	0.00	156.21	1397.81	-52.65	23.21	57.53	0.00	0.00	0.00	

Weatherford
WELL PLAN REPORT

Company:	Anadarko-Kerr-McGee	**Date:**	6/30/2008	**Time:** 14:54:35	**Page:** 2
Field:	UINTAH COUNTY, UTAH (NAD 27)	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Site:	NBU 921-15F PAD	**Vertical (TVD) Reference:**	SITE 4810.0		
Well:	NBU 921-15G2S	**Section (VS) Reference:**	Well (0.00N,0.00E,156.21Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:** Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
1500.00	0.00	156.21	1497.81	-52.65	23.21	57.53	0.00	0.00	0.00	
1600.00	0.00	156.21	1597.81	-52.65	23.21	57.53	0.00	0.00	0.00	
1700.00	0.00	156.21	1697.81	-52.65	23.21	57.53	0.00	0.00	0.00	
1708.19	0.00	156.21	1706.00	-52.65	23.21	57.53	0.00	0.00	0.00	Green River
1800.00	0.00	156.21	1797.81	-52.65	23.21	57.53	0.00	0.00	0.00	
1900.00	0.00	156.21	1897.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2000.00	0.00	156.21	1997.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2100.00	0.00	156.21	2097.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2200.00	0.00	156.21	2197.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2300.00	0.00	156.21	2297.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2400.00	0.00	156.21	2397.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2500.00	0.00	156.21	2497.81	-52.65	23.21	57.53	0.00	0.00	0.00	
2502.19	0.00	156.21	2500.00	-52.65	23.21	57.53	0.00	0.00	0.00	CSG
2561.19	0.00	156.21	2559.00	-52.65	23.21	57.53	0.00	0.00	0.00	KOP
2562.19	0.00	156.21	2560.00	-52.65	23.21	57.53	0.00	0.00	0.00	
2600.00	1.13	156.21	2597.81	-52.99	23.36	57.91	3.00	3.00	0.00	
2700.00	4.13	156.21	2697.69	-57.19	25.21	62.50	3.00	3.00	0.00	
2800.00	7.13	156.21	2797.19	-66.18	29.17	72.32	3.00	3.00	0.00	
2900.00	10.13	156.21	2896.05	-79.91	35.23	87.33	3.00	3.00	0.00	
3000.00	13.13	156.21	2993.98	-98.36	43.36	107.49	3.00	3.00	0.00	
3077.68	15.46	156.21	3069.26	-115.92	51.10	126.68	3.00	3.00	0.00	HOLD
3100.00	15.46	156.21	3090.76	-121.36	53.50	132.63	0.00	0.00	0.00	
3200.00	15.46	156.21	3187.14	-145.76	64.26	159.30	0.00	0.00	0.00	
3300.00	15.46	156.21	3283.52	-170.16	75.01	185.96	0.00	0.00	0.00	
3400.00	15.46	156.21	3379.90	-194.56	85.77	212.63	0.00	0.00	0.00	
3500.00	15.46	156.21	3476.28	-218.96	96.53	239.29	0.00	0.00	0.00	
3600.00	15.46	156.21	3572.66	-243.36	107.28	265.95	0.00	0.00	0.00	
3700.00	15.46	156.21	3669.04	-267.76	118.04	292.62	0.00	0.00	0.00	
3800.00	15.46	156.21	3765.42	-292.15	128.79	319.28	0.00	0.00	0.00	
3900.00	15.46	156.21	3861.80	-316.55	139.55	345.95	0.00	0.00	0.00	
4000.00	15.46	156.21	3958.18	-340.95	150.31	372.61	0.00	0.00	0.00	
4100.00	15.46	156.21	4054.56	-365.35	161.06	399.28	0.00	0.00	0.00	
4200.00	15.46	156.21	4150.94	-389.75	171.82	425.94	0.00	0.00	0.00	
4300.00	15.46	156.21	4247.32	-414.15	182.57	452.61	0.00	0.00	0.00	
4400.00	15.46	156.21	4343.70	-438.55	193.33	479.27	0.00	0.00	0.00	
4500.00	15.46	156.21	4440.08	-462.95	204.09	505.94	0.00	0.00	0.00	
4600.00	15.46	156.21	4536.46	-487.35	214.84	532.60	0.00	0.00	0.00	
4650.87	15.46	156.21	4585.49	-499.76	220.31	546.17	0.00	0.00	0.00	DROP
4700.00	14.73	156.21	4632.92	-511.47	225.47	558.96	1.50	-1.50	0.00	
4800.00	13.23	156.21	4729.95	-533.57	235.22	583.11	1.50	-1.50	0.00	
4900.00	11.73	156.21	4827.59	-553.34	243.93	604.72	1.50	-1.50	0.00	
5000.00	10.23	156.21	4925.76	-570.76	251.61	623.76	1.50	-1.50	0.00	
5100.00	8.73	156.21	5024.39	-585.83	258.26	640.23	1.50	-1.50	0.00	
5180.42	7.52	156.21	5104.00	-596.23	262.84	651.59	1.50	-1.50	0.00	Wasatch
5200.00	7.23	156.21	5123.42	-598.53	263.86	654.11	1.50	-1.50	0.00	
5300.00	5.73	156.21	5222.78	-608.85	268.41	665.39	1.50	-1.50	0.00	
5400.00	4.23	156.21	5322.40	-616.79	271.91	674.07	1.50	-1.50	0.00	
5500.00	2.73	156.21	5422.21	-622.34	274.35	680.13	1.50	-1.50	0.00	
5600.00	1.23	156.21	5522.15	-625.50	275.75	683.58	1.50	-1.50	0.00	
5681.86	0.00	156.21	5604.00	-626.30	276.10	684.46	1.50	-1.50	0.00	HOLD
5700.00	0.00	156.21	5622.14	-626.30	276.10	684.46	0.00	0.00	0.00	
5800.00	0.00	156.21	5722.14	-626.30	276.10	684.46	0.00	0.00	0.00	
5900.00	0.00	156.21	5822.14	-626.30	276.10	684.46	0.00	0.00	0.00	

Weatherford
WELL PLAN REPORT

Company:	Anadarko-Kerr-McGee	**Date:** 6/30/2008	**Time:** 14:54:35	**Page:**	3
Field:	UINTAH COUNTY, UTAH (NAD 27)	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Site:	NBU 921-15F PAD	**Vertical (TVD) Reference:**	SITE 4810.0		
Well:	NBU 921-15G2S	**Section (VS) Reference:**	Well (0.00N,0.00E,156.21Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
6000.00	0.00	156.21	5922.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6100.00	0.00	156.21	6022.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6200.00	0.00	156.21	6122.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6300.00	0.00	156.21	6222.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6400.00	0.00	156.21	6322.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6500.00	0.00	156.21	6422.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6600.00	0.00	156.21	6522.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6700.00	0.00	156.21	6622.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6800.00	0.00	156.21	6722.14	-626.30	276.10	684.46	0.00	0.00	0.00	
6900.00	0.00	156.21	6822.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7000.00	0.00	156.21	6922.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7100.00	0.00	156.21	7022.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7200.00	0.00	156.21	7122.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7300.00	0.00	156.21	7222.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7400.00	0.00	156.21	7322.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7500.00	0.00	156.21	7422.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7600.00	0.00	156.21	7522.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7700.00	0.00	156.21	7622.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7800.00	0.00	156.21	7722.14	-626.30	276.10	684.46	0.00	0.00	0.00	
7900.00	0.00	156.21	7822.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8000.00	0.00	156.21	7922.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8059.86	0.00	156.21	7982.00	-626.30	276.10	684.46	0.00	0.00	0.00	Mesaverde
8100.00	0.00	156.21	8022.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8200.00	0.00	156.21	8122.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8300.00	0.00	156.21	8222.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8400.00	0.00	156.21	8322.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8500.00	0.00	156.21	8422.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8600.00	0.00	156.21	8522.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8700.00	0.00	156.21	8622.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8800.00	0.00	156.21	8722.14	-626.30	276.10	684.46	0.00	0.00	0.00	
8900.00	0.00	156.21	8822.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9000.00	0.00	156.21	8922.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9100.00	0.00	156.21	9022.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9200.00	0.00	156.21	9122.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9300.00	0.00	156.21	9222.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9400.00	0.00	156.21	9322.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9500.00	0.00	156.21	9422.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9600.00	0.00	156.21	9522.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9700.00	0.00	156.21	9622.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9800.00	0.00	156.21	9722.14	-626.30	276.10	684.46	0.00	0.00	0.00	
9900.00	0.00	156.21	9822.14	-626.30	276.10	684.46	0.00	0.00	0.00	
10000.00	0.00	156.21	9922.14	-626.30	276.10	684.46	0.00	0.00	0.00	
10100.00	0.00	156.21	10022.14	-626.30	276.10	684.46	0.00	0.00	0.00	
10177.86	0.00	156.21	10100.00	-626.30	276.10	684.46	0.00	0.00	0.00	PBHL 15G2S

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
PBHL 15G2S -Circle (Radius: 25) -Plan hit target			10100.00	-626.30	276.10	627430.41	2549794.52	40 2 21.820 N	109 32 10.210 W

Weatherford
WELL PLAN REPORT

Company:	Anadarko-Kerr-McGee	**Date:**	6/30/2008	**Time:** 14:54:35	**Page:** 4
Field:	UINTAH COUNTY, UTAH (NAD 27)	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Site:	NBU 921-15F PAD	**Vertical (TVD) Reference:**	SITE 4810.0		
Well:	NBU 921-15G2S	**Section (VS) Reference:**	Well (0.00N,0.00E,156.21Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2502.19	2500.00	0.00	0.00	CSG

Annotation

MD ft	TVD ft	
300.00	300.00	NUDGE
600.00	599.45	HOLD
700.00	698.90	DROP
1300.00	1297.81	HOLD
2561.19	2559.00	KOP
3077.68	3069.25	HOLD
4650.87	4585.48	DROP
5681.86	5604.00	HOLD
10177.85	10099.99	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1708.19	1706.00	Green River		0.00	0.00
5180.42	5104.00	Wasatch		0.00	0.00
8059.86	7982.00	Mesaverde		0.00	0.00

Weatherford Drilling Services

GeoDec v4.3.065

Report Date:	June 30, 2008
Job Number:	
Customer:	ANADARKO
Well Name:	NBU 921-15G2S
API Number:	
Rig Name:	
Location:	UINTA COUNTY, UTAH
Block:	
Engineer:	R JOYNER

Geodetic Latitude / Longitude
System: Latitude / Longitude
Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Latitude 40.0411140 DEG
Longitude -109.5371560 DEG

Geodetic Latitude / Longitude
System: Latitude / Longitude
Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Latitude 40 2 28.0104000 DMS
Longitude -109 32 13.7616000 DMS

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	40.04111° N	40° 2 min 28.010 sec
Longitude =	109.53716° W	109° 32 min 13.762 sec

Magnetic Declination =	11.5030°	[True North Offset]	
Local Gravity =	.9995 g		
Local Field Strength =	52672 nT	Magnetic Vector X =	21019 nT
Magnetic Dip =	65.9690°	Magnetic Vector Y =	4278 nT
Magnetic Model =	bggm2007	Magnetic Vector Z =	48107 nT
Spud Date =	Jun 30, 2008	Magnetic Vector H =	21450 nT

Signed:_____ Date:_____

Weatherford
Anticollision Report

Company:	Anadarko-Kerr-McGee	**Date:** 6/30/2008	**Time:** 14:53:44	**Page:**	1
Field:	UINTAH COUNTY, UTAH (NAD 27)				
Reference Site:	NBU 921-15F PAD	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Reference Well:	NBU 921-15G2S	**Vertical (TVD) Reference:**	SITE 4810.0		
Reference Wellpath:	1			**Db:**	Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria

Interpolation Method:	MD + Stations **Interval:** 100.00 ft	**Reference:**	Plan: Plan #2
Depth Range:	0.00 to 10177.86 ft	**Error Model:**	ISCWSA Ellipse
Maximum Radius:	10000.00 ft	**Scan Method:**	Closest Approach 3D
		Error Surface:	Ellipse

Plan:	Plan #2	**Date Composed:**	6/26/2008
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Summary

<-------- Offset Wellpath --------> Site	Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 921-15F PAD	EXISTING WELL 2981 V0		2700.00	2700.86	49.52	45.03	11.02	

Site: NBU 921-15F PAD
Well: EXISTING WELL 298
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	293.36	30.26	-70.07	76.32			No Data
100.00	100.00	100.41	100.41	0.09	0.04	293.62	30.47	-69.68	76.05	75.93	589.21	
200.00	200.00	200.22	200.22	0.30	0.10	294.00	30.77	-69.10	75.64	75.25	193.48	
300.00	300.00	300.24	300.24	0.50	0.15	294.24	30.93	-68.70	75.34	74.69	115.40	
400.00	399.98	400.30	400.29	0.72	0.20	138.95	30.85	-68.34	76.28	75.37	83.28	
500.00	499.84	500.53	500.53	0.93	0.25	141.37	30.56	-67.76	79.67	78.48	67.28	
600.00	599.45	600.59	600.57	1.17	0.31	144.95	30.05	-66.81	85.57	84.11	58.66	
700.00	698.90	700.62	700.59	1.43	0.36	148.24	28.66	-65.86	92.77	91.03	53.37	
800.00	798.44	800.26	800.20	1.49	0.41	150.45	26.62	-65.12	99.23	97.42	54.69	
900.00	898.13	900.34	900.27	1.37	0.47	152.03	24.64	-64.22	104.20	102.51	61.60	
1000.00	997.95	1000.73	1000.63	1.27	0.52	153.15	22.60	-62.93	107.35	105.78	68.04	
1100.00	1097.85	1101.29	1101.14	1.18	0.58	153.91	20.41	-61.13	108.48	107.01	73.53	
1200.00	1197.81	1200.80	1200.61	1.11	0.64	154.54	18.64	-58.96	108.03	106.64	77.87	
1300.00	1297.81	1301.23	1301.00	1.04	0.69	154.99	17.15	-56.53	106.02	104.69	80.02	
1400.00	1397.81	1401.55	1401.27	1.04	0.75	155.40	15.60	-53.63	102.83	101.46	74.84	
1500.00	1497.81	1502.01	1501.66	1.12	0.81	155.85	13.76	-50.40	99.21	97.66	64.29	
1600.00	1597.81	1602.24	1601.81	1.23	0.87	156.42	11.75	-46.76	95.18	93.43	54.53	
1700.00	1697.81	1703.63	1703.05	1.36	0.94	157.48	9.53	-41.88	90.17	88.20	45.83	
1800.00	1797.81	1805.09	1804.24	1.51	1.01	159.19	6.51	-35.14	83.34	81.14	37.84	
1900.00	1897.81	1904.65	1903.48	1.67	1.08	161.03	2.80	-28.06	75.73	73.28	30.99	
2000.00	1997.81	2003.78	2002.34	1.85	1.16	162.72	-0.98	-21.80	68.67	65.98	25.52	
2100.00	2097.81	2102.48	2100.83	2.02	1.23	165.28	-3.44	-15.95	62.96	60.01	21.39	
2200.00	2197.81	2201.79	2200.01	2.21	1.30	168.04	-5.04	-11.06	58.70	55.50	18.33	
2300.00	2297.81	2301.51	2299.66	2.40	1.36	169.62	-7.03	-7.75	55.16	51.70	15.94	
2400.00	2397.81	2401.29	2399.38	2.59	1.42	170.32	-9.31	-5.44	51.97	48.25	13.97	
2500.00	2497.81	2501.04	2499.09	2.78	1.47	170.62	-11.51	-3.68	49.16	45.18	12.36	
2562.19	2560.00	2563.05	2561.08	2.91	1.51	170.54	-12.81	-2.91	47.64	43.50	11.51	
2600.00	2597.81	2600.76	2598.78	2.98	1.53	170.36	-13.61	-2.63	47.19	42.96	11.14	
2700.00	2697.69	2700.86	2698.85	3.21	1.58	170.15	-15.97	-2.21	49.52	45.03	11.02	
2800.00	2797.19	2800.62	2798.58	3.47	1.64	170.73	-18.54	-1.77	56.82	52.07	11.96	
2900.00	2896.05	2899.20	2897.13	3.76	1.69	171.63	-20.85	-1.75	69.68	64.68	13.92	
3000.00	2993.98	2997.34	2995.25	4.11	1.74	172.63	-22.76	-2.05	88.20	82.95	16.77	
3077.68	3069.26	3073.10	3071.00	4.43	1.78	173.43	-24.19	-2.19	106.10	100.65	19.45	
3100.00	3090.76	3094.78	3092.67	4.52	1.79	173.63	-24.64	-2.25	111.65	106.13	20.22	
3200.00	3187.14	3192.00	3189.86	4.97	1.84	174.25	-26.92	-2.61	136.39	130.57	23.42	
3300.00	3283.52	3289.26	3287.09	5.43	1.89	174.66	-29.42	-2.90	160.90	154.77	26.25	

Weatherford
Anticollision Report

Company:	Anadarko-Kerr-McGee	**Date:** 6/30/2008	**Time:** 14:53:44	**Page:**	2
Field:	UINTAH COUNTY, UTAH (NAD 27)				
Reference Site:	NBU 921-15F PAD	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Reference Well:	NBU 921-15G2S	**Vertical (TVD) Reference:**	SITE 4810.0		
Reference Wellpath:	1			**Db:**	Sybase

Site: NBU 921-15F PAD
Well: EXISTING WELL 298
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
3400.00	3379.90	3386.61	3384.41	5.91	1.94	175.08	-31.94	-2.77	185.22	178.78	28.78	
3500.00	3476.28	3483.72	3481.48	6.40	2.00	175.46	-34.45	-2.37	209.41	202.66	31.04	
3600.00	3572.66	3580.79	3578.52	6.89	2.05	175.79	-36.94	-1.91	233.59	226.53	33.10	
3700.00	3669.04	3677.94	3675.64	7.40	2.10	176.01	-39.56	-1.60	257.74	250.37	34.98	
3800.00	3765.42	3775.14	3772.79	7.90	2.16	176.03	-42.57	-1.92	281.84	274.15	36.67	
3900.00	3861.80	3873.48	3871.07	8.41	2.21	175.95	-46.02	-2.62	305.76	297.75	38.18	
4000.00	3958.18	3972.44	3969.95	8.93	2.27	175.88	-49.96	-3.09	329.16	320.83	39.52	
4100.00	4054.56	4069.36	4066.78	9.45	2.33	175.82	-54.10	-3.44	352.26	343.61	40.72	
4200.00	4150.94	4165.30	4162.64	9.97	2.38	175.75	-57.98	-4.02	375.67	366.69	41.87	
4300.00	4247.32	4262.84	4260.10	10.49	2.44	175.67	-61.79	-4.79	399.28	389.98	42.94	
4400.00	4343.70	4361.48	4358.65	11.01	2.50	175.61	-65.85	-5.35	422.61	412.99	43.91	
4500.00	4440.08	4460.92	4457.99	11.54	2.56	175.56	-70.28	-5.72	445.57	435.61	44.77	
4600.00	4536.46	4561.00	4557.95	12.06	2.62	175.48	-75.36	-6.08	467.98	457.69	45.51	
4650.87	4585.49	4612.04	4608.91	12.33	2.65	175.43	-78.20	-6.25	479.16	468.71	45.84	
4700.00	4632.92	4661.52	4658.31	12.51	2.69	175.41	-81.01	-6.22	489.51	478.98	46.47	
4800.00	4729.95	4762.83	4759.45	12.69	2.75	175.44	-86.80	-5.23	508.22	497.71	48.35	
4900.00	4827.59	4861.29	4857.73	12.85	2.82	175.53	-92.40	-3.39	523.97	513.49	50.02	
5000.00	4925.76	4958.02	4954.31	13.00	2.89	175.60	-97.58	-1.73	537.49	527.06	51.53	
5100.00	5024.39	5055.12	5051.28	13.12	2.95	175.63	-102.42	-0.28	548.86	538.48	52.90	
5200.00	5123.42	5152.53	5148.57	13.21	3.02	175.66	-106.85	1.15	558.03	547.71	54.12	
5300.00	5222.78	5249.10	5245.05	13.27	3.08	175.69	-110.81	2.49	565.03	554.79	55.21	
5400.00	5322.40	5344.83	5340.71	13.30	3.14	175.67	-114.25	3.33	570.11	559.96	56.19	
5500.00	5422.21	5442.96	5438.80	13.30	3.19	175.60	-117.33	3.65	573.23	563.18	57.05	
5600.00	5522.15	5544.35	5540.13	13.26	3.25	175.50	-120.62	4.00	573.65	563.71	57.71	
5681.86	5604.00	5626.87	5622.60	13.21	3.30	331.61	-123.44	4.37	571.89	560.23	49.05	
5700.00	5622.14	5644.94	5640.66	13.21	3.31	331.59	-124.06	4.44	571.30	559.63	48.95	
5800.00	5722.14	5744.58	5740.24	13.29	3.37	331.46	-127.52	4.78	568.09	556.22	47.89	
5900.00	5822.14	5843.81	5839.41	13.38	3.43	331.30	-130.98	4.96	564.94	552.89	46.86	
6000.00	5922.14	5942.53	5938.08	13.46	3.49	331.12	-134.39	4.78	562.00	549.74	45.85	
6100.00	6022.14	6041.15	6036.63	13.55	3.55	330.91	-137.72	4.31	559.28	546.82	44.87	
6200.00	6122.14	6050.00	6045.48	13.64	3.55	330.90	-137.99	4.29	564.10	551.49	44.76	
6300.00	6222.14	6050.00	6045.48	13.74	3.55	330.90	-137.99	4.29	586.12	573.38	46.02	
6400.00	6322.14	6050.00	6045.48	13.84	3.55	330.90	-137.99	4.29	623.59	610.72	48.44	
6500.00	6422.14	6050.00	6045.48	13.94	3.55	330.90	-137.99	4.29	673.94	660.93	51.80	
6600.00	6522.14	6050.00	6045.48	14.04	3.55	330.90	-137.99	4.29	734.53	721.38	55.86	
6700.00	6622.14	6050.00	6045.48	14.14	3.55	330.90	-137.99	4.29	803.03	789.74	60.41	
6800.00	6722.14	6050.00	6045.48	14.25	3.55	330.90	-137.99	4.29	877.61	864.17	65.31	
6900.00	6822.14	6050.00	6045.48	14.36	3.55	330.90	-137.99	4.29	956.83	943.25	70.43	
7000.00	6922.14	6050.00	6045.48	14.47	3.55	330.90	-137.99	4.29	1039.64	1025.91	75.69	
7100.00	7022.14	6050.00	6045.48	14.58	3.55	330.90	-137.99	4.29	1125.25	1111.36	81.02	
7200.00	7122.14	6050.00	6045.48	14.70	3.55	330.90	-137.99	4.29	1213.06	1199.02	86.39	
7300.00	7222.14	6050.00	6045.48	14.82	3.55	330.90	-137.99	4.29	1302.63	1288.44	91.74	
7400.00	7322.14	6050.00	6045.48	14.94	3.55	330.90	-137.99	4.29	1393.62	1379.27	97.07	
7500.00	7422.14	6050.00	6045.48	15.06	3.55	330.90	-137.99	4.29	1485.77	1471.26	102.35	
7600.00	7522.14	6050.00	6045.48	15.18	3.55	330.90	-137.99	4.29	1578.88	1564.20	107.56	
7700.00	7622.14	6050.00	6045.48	15.31	3.55	330.90	-137.99	4.29	1672.78	1657.94	112.71	
7800.00	7722.14	6050.00	6045.48	15.44	3.55	330.90	-137.99	4.29	1767.35	1752.34	117.77	
7900.00	7822.14	6050.00	6045.48	15.56	3.55	330.90	-137.99	4.29	1862.48	1847.31	122.75	
8000.00	7922.14	6050.00	6045.48	15.70	3.55	330.90	-137.99	4.29	1958.11	1942.77	127.64	
8100.00	8022.14	6050.00	6045.48	15.83	3.55	330.90	-137.99	4.29	2054.14	2038.63	132.44	
8200.00	8122.14	6050.00	6045.48	15.96	3.55	330.90	-137.99	4.29	2150.54	2134.86	137.15	

Company:	Anadarko-Kerr-McGee	**Date:** 6/30/2008	**Time:** 14:53:44	**Page:**	3
Field:	UINTAH COUNTY, UTAH (NAD 27)				
Reference Site:	NBU 921-15F PAD	**Co-ordinate(NE) Reference:**	Well: NBU 921-15G2S, True North		
Reference Well:	NBU 921-15G2S	**Vertical (TVD) Reference:**	SITE 4810.0		
Reference Wellpath:	1			**Db:**	Sybase

Site: NBU 921-15F PAD
Well: EXISTING WELL 298
Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	Reference TVD ft	Offset MD ft	Offset TVD ft	Semi-Major Axis Ref ft	Semi-Major Axis Offset ft	TFO-HS deg	Offset Location North ft	Offset Location East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
8300.00	8222.14	6050.00	6045.48	16.10	3.55	330.90	-137.99	4.29	2247.26	2231.41	141.77	
8400.00	8322.14	6050.00	6045.48	16.24	3.55	330.90	-137.99	4.29	2344.25	2328.22	146.29	
8500.00	8422.14	6050.00	6045.48	16.37	3.55	330.90	-137.99	4.29	2441.48	2425.28	150.72	
8600.00	8522.14	6050.00	6045.48	16.51	3.55	330.90	-137.99	4.29	2538.93	2522.56	155.06	
8700.00	8622.14	6050.00	6045.48	16.66	3.55	330.90	-137.99	4.29	2636.57	2620.02	159.31	
8800.00	8722.14	6050.00	6045.48	16.80	3.55	330.90	-137.99	4.29	2734.38	2717.65	163.47	
8900.00	8822.14	6050.00	6045.48	16.94	3.55	330.90	-137.99	4.29	2832.34	2815.44	167.55	
9000.00	8922.14	6050.00	6045.48	17.09	3.55	330.90	-137.99	4.29	2930.44	2913.36	171.53	
9100.00	9022.14	6050.00	6045.48	17.24	3.55	330.90	-137.99	4.29	3028.67	3011.40	175.44	
9200.00	9122.14	6050.00	6045.48	17.39	3.55	330.90	-137.99	4.29	3127.01	3109.56	179.26	
9300.00	9222.14	6050.00	6045.48	17.54	3.55	330.90	-137.99	4.29	3225.44	3207.82	183.00	
9400.00	9322.14	6050.00	6045.48	17.69	3.55	330.90	-137.99	4.29	3323.98	3306.17	186.66	
9500.00	9422.14	6050.00	6045.48	17.84	3.55	330.90	-137.99	4.29	3422.60	3404.60	190.24	
9600.00	9522.14	6050.00	6045.48	17.99	3.55	330.90	-137.99	4.29	3521.29	3503.12	193.75	
9700.00	9622.14	6050.00	6045.48	18.15	3.55	330.90	-137.99	4.29	3620.06	3601.70	197.18	
9800.00	9722.14	6050.00	6045.48	18.30	3.55	330.90	-137.99	4.29	3718.89	3700.35	200.54	
9900.00	9822.14	6050.00	6045.48	18.46	3.55	330.90	-137.99	4.29	3817.79	3799.06	203.83	
10000.00	9922.14	6050.00	6045.48	18.62	3.55	330.90	-137.99	4.29	3916.74	3897.82	207.05	
10100.00	10022.14	6050.00	6045.48	18.77	3.55	330.90	-137.99	4.29	4015.74	3996.63	210.21	
10177.86	10100.00	6050.00	6045.48	18.90	3.55	330.90	-137.99	4.29	4092.85	4073.60	212.62	

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE EXISTING NBU #298 AND THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.9 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S

LOCATED IN UINTAH COUNTY, UTAH
SECTION 15, T9S, R21E, S.L.B.&M.

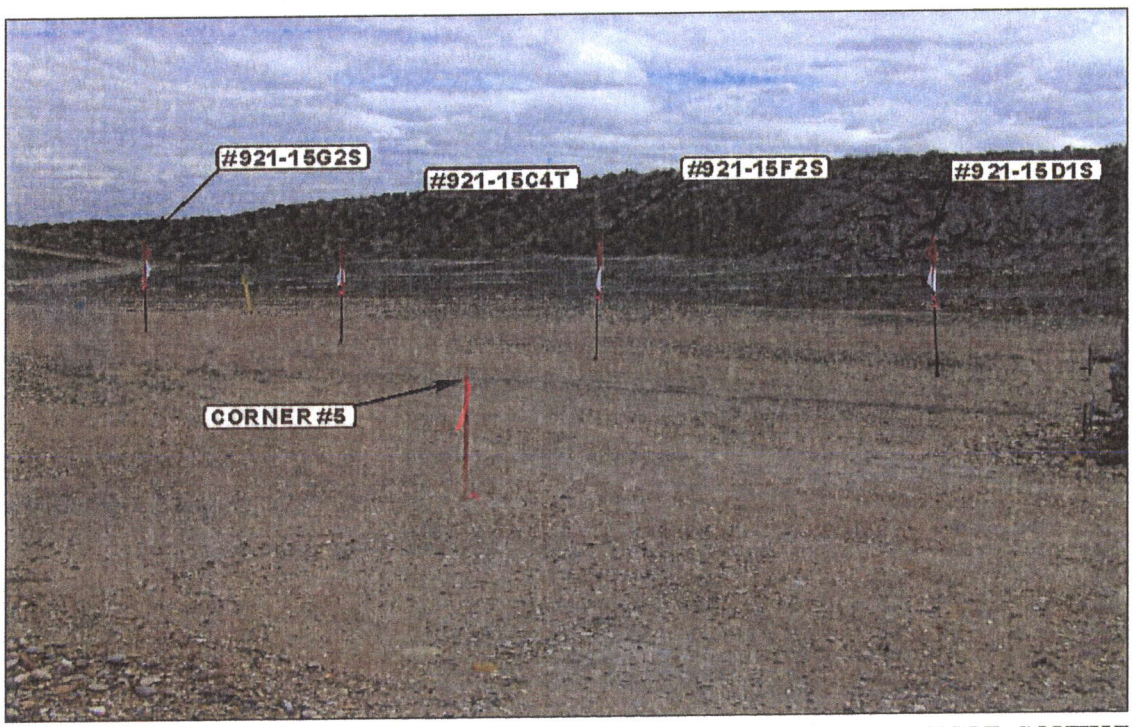


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY

PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHWESTERLY

- Since 1964 -

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	05 MONTH	21 DAY	08 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: C.C.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

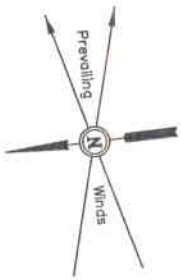
SITE PLAN LAYOUT FOR

NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S

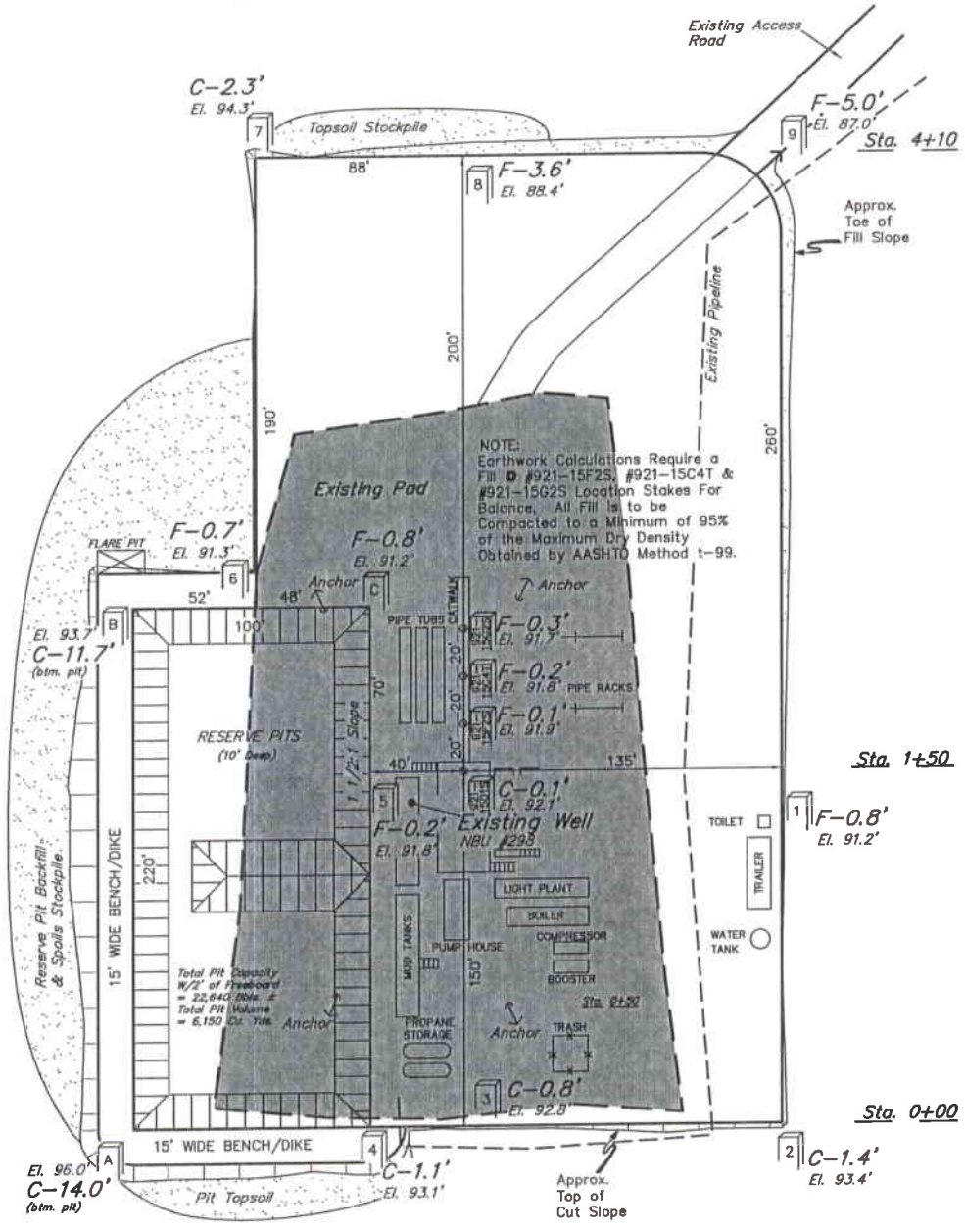
SECTION 15, T9S, R21E, S.L.B.&M.

N 1/2

FIGURE #1



SCALE: 1" = 50'
DATE: 05-21-08
Drawn By: C.C.



NOTES:

Elev. Ungraded Ground At #921-15D1S Loc. Stake = 4792.1'

FINISHED GRADE ELEV. AT #921-15D1S LOC. STAKE = 4792.0'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

Kerr-McGee Oil & Gas Onshore LP

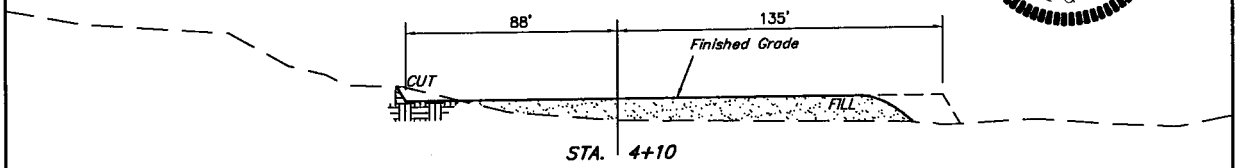
TYPICAL CROSS SECTIONS FOR

NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B.&M.
N 1/2

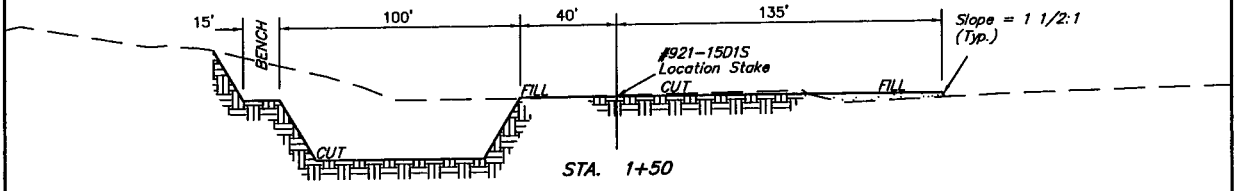
FIGURE #2

1" = 20' X-Section Scale
1" = 50'
DATE: 05-21-08
Drawn By: C.C.

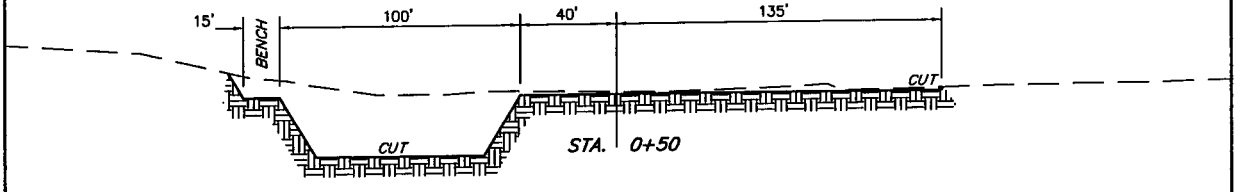
REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



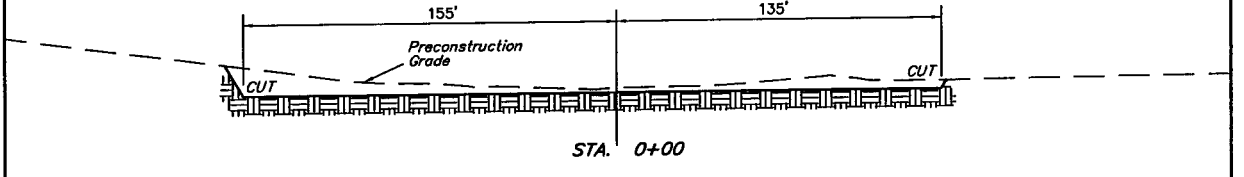
STA. 4+10



STA. 1+50



STA. 0+50



STA. 0+00

NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT
(12") Topsoil Stripping (New Construction Only) = 2,190 Cu. Yds.
Remaining Location = 7,310 Cu. Yds.

TOTAL CUT = 9,500 CU.YDS.
FILL = 5,120 CU.YDS.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL = 4,380 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,270 Cu. Yds.
DEFICET UNBALANCE (After Interim Rehabilitation) = <890> Cu. Yds.

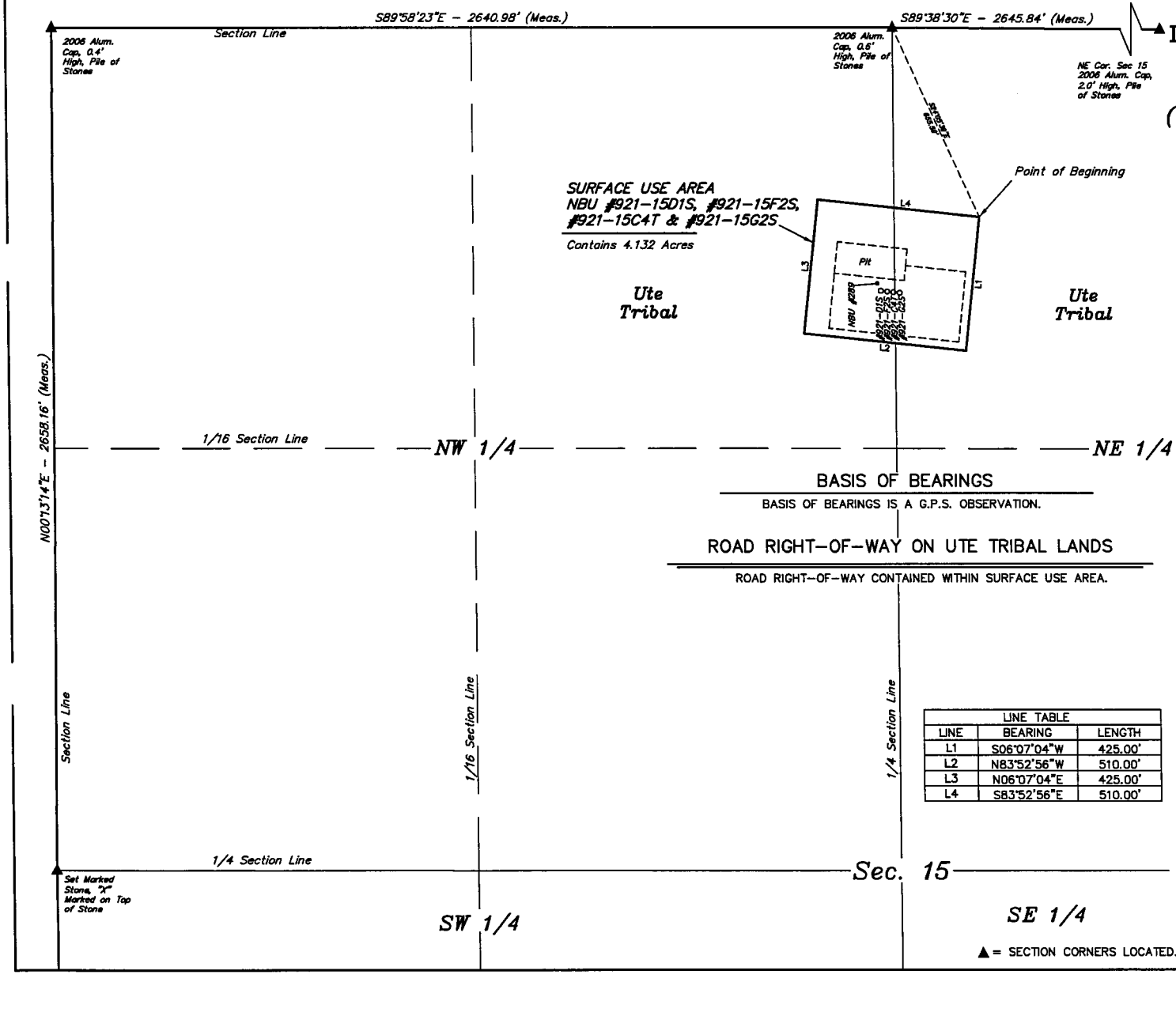
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

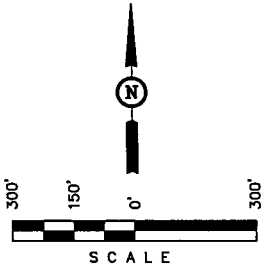
Kerr-McGee Oil & Gas Onshore LP

LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

(For NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S)

LOCATED IN
SECTION 15, T9S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH





BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 15, T9S, R21E, S.L.B.&M. WHICH BEARS S24°05'39"E 655.59' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15, THENCE S06°07'04"W 425.00'; THENCE N83°52'56"W 510.00'; THENCE N06°07'04"E 425.00'; THENCE S83°52'56"E 510.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.976 ACRES MORE OR LESS.

LINE TABLE		
LINE	BEARING	LENGTH
L1	S06°07'04"W	425.00'
L2	N83°52'56"W	510.00'
L3	N06°07'04"E	425.00'
L4	S83°52'56"E	510.00'

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH - 200 EAST • (435) 789-1017
VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 48646

Kerr-McGee Oil & Gas Onshore Lr
NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S
ROAD RIGHT-OF-WAY & SURFACE USE AREA
SECTION 15, T9S, R21E, S.L.B.&M.

TOTAL ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

ENGINEER'S AFFIDAVIT

STATE OF UTAH)
) SS
COUNTY OF UINTAH)

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR Kerr-McGee Oil & Gas Onshore LP, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE SURFACE USE AREA AND ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN ON THIS PLAT IS ACCURATELY REPRESENTED.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS 17 DAY OF July 2008.

MY COMMISSION EXPIRES Aug 17, 2010.

NOTARY PUBLIC Notary Public
TRACY D. HENLINE
3379 East 5000 South
Vernal, Utah 84078
My Commission Expires
August 17, 2010
State of Utah

APPLICANT'S CERTIFICATE

I, RANDY BAYNE, DO HEREBY CERTIFY THAT I AM THE AGENT FOR Kerr-McGee Oil & Gas Onshore LP, HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS SURFACE USE AREA AND ROAD RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN, THAT SAID SURFACE USE AREA AND ROAD RIGHT-OF-WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

APPLICANT

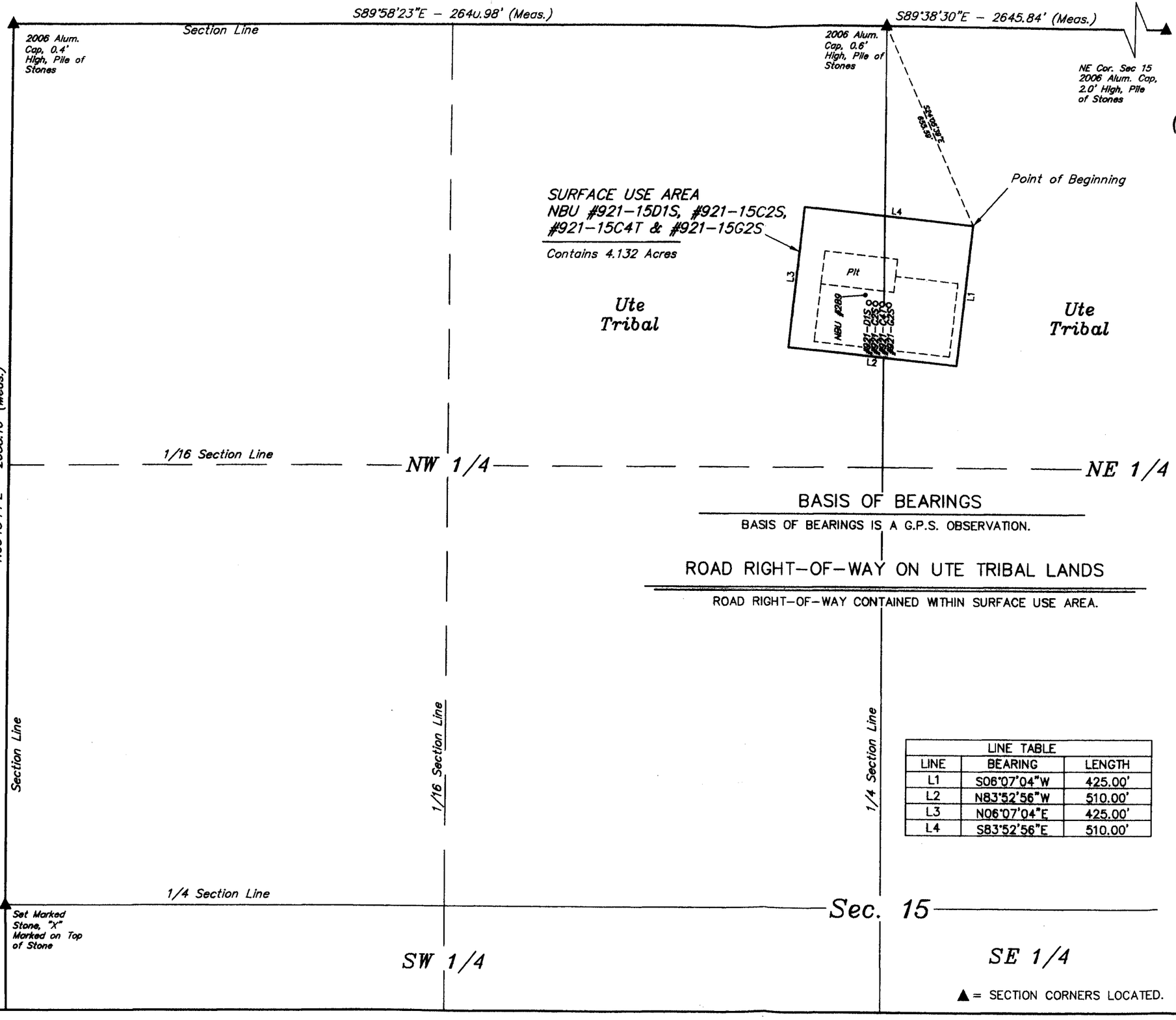
DRILLING MANAGER
TITLE

Kerr-McGee Oil & Gas Onshore LP

LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

(For NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S)

LOCATED IN
SECTION 15, T9S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH



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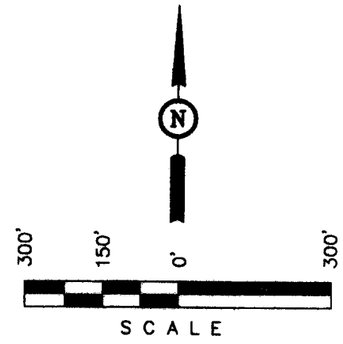

SURFACE USE AREA DESCRIPTION

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CERTIFICATE

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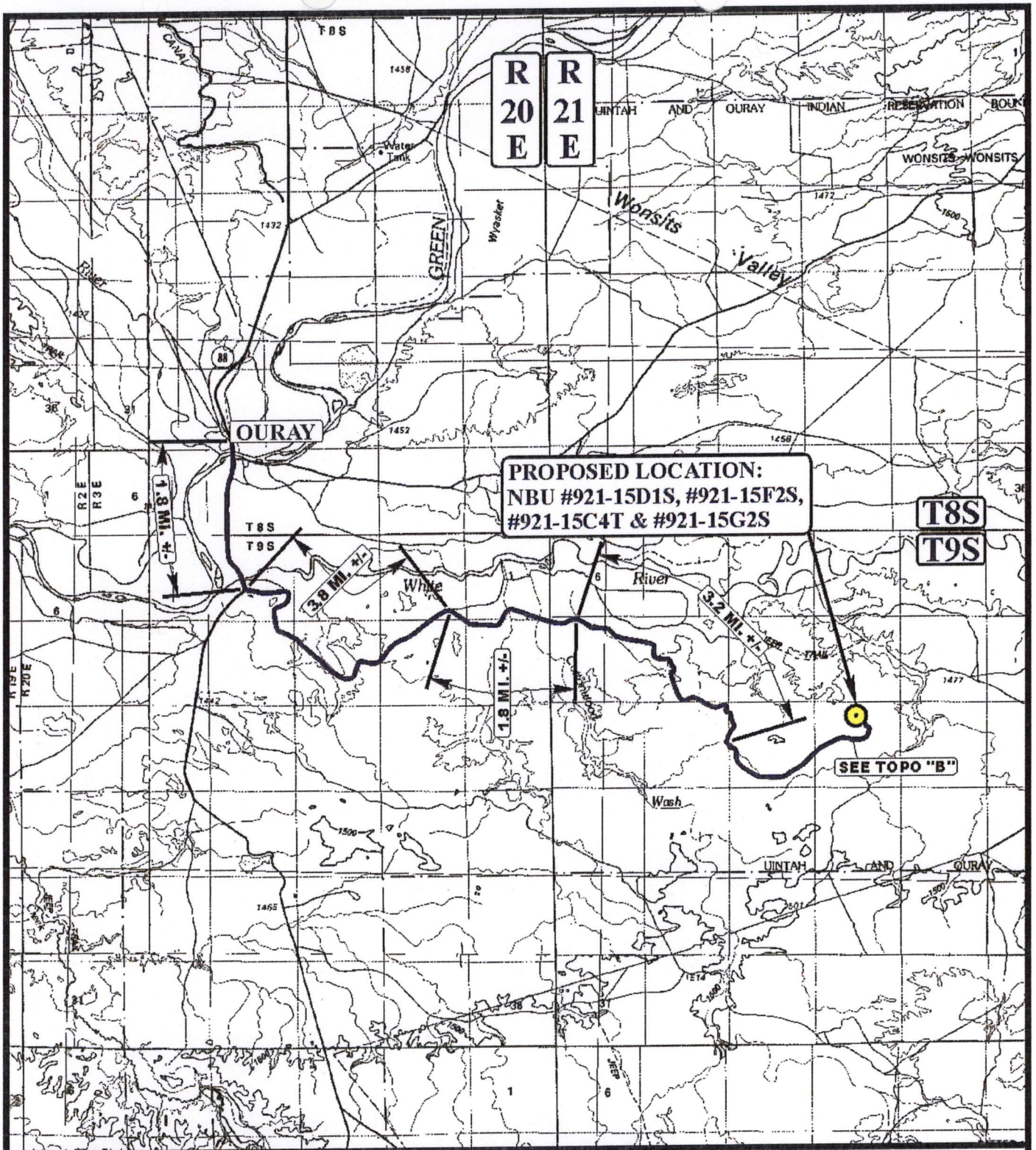
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 07-17-08

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH - 200 EAST • (435) 789-1017
VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 48646



LEGEND:

PROPOSED LOCATION

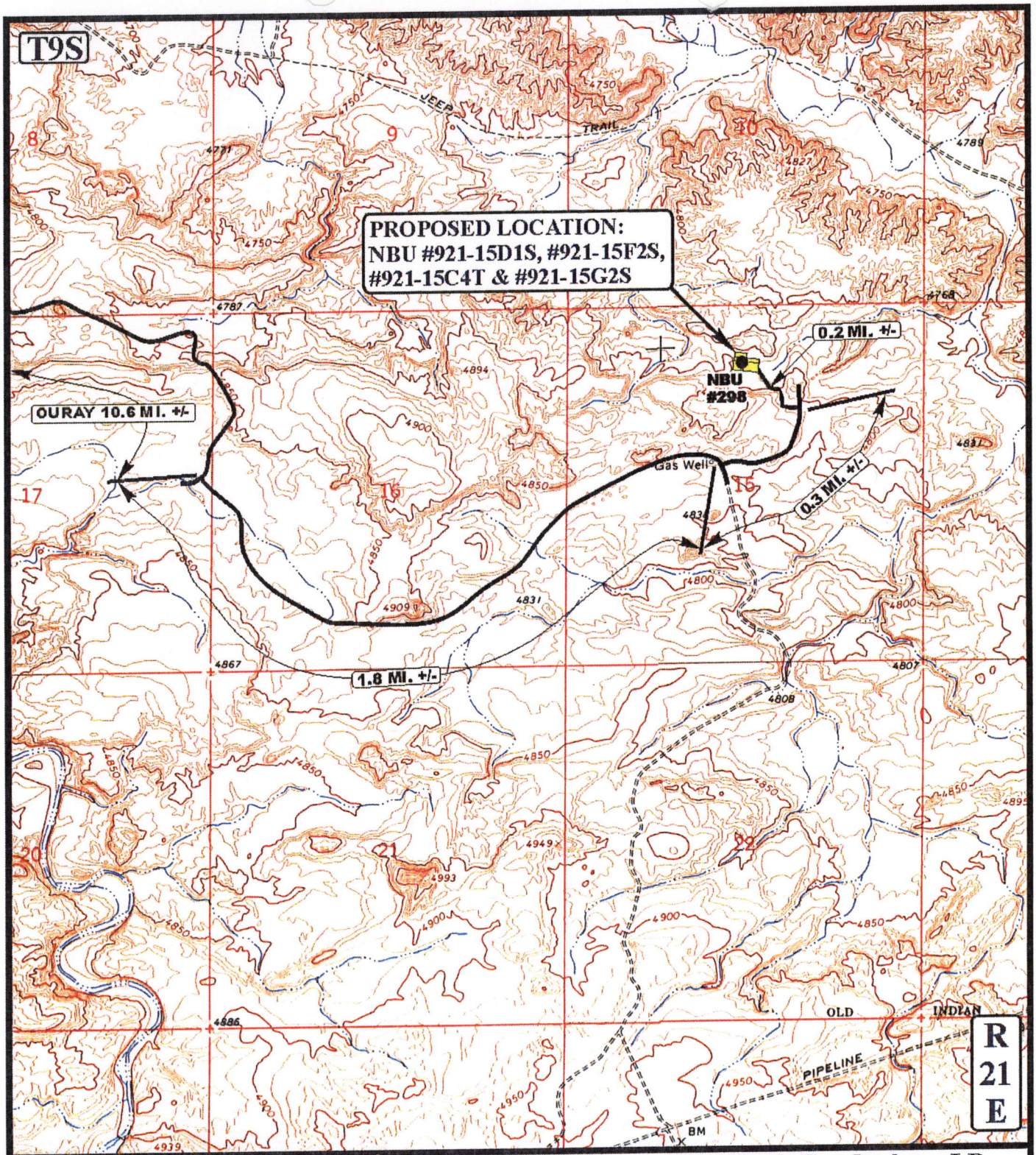
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B. &M.
N 1/2

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	20 DAY	08 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

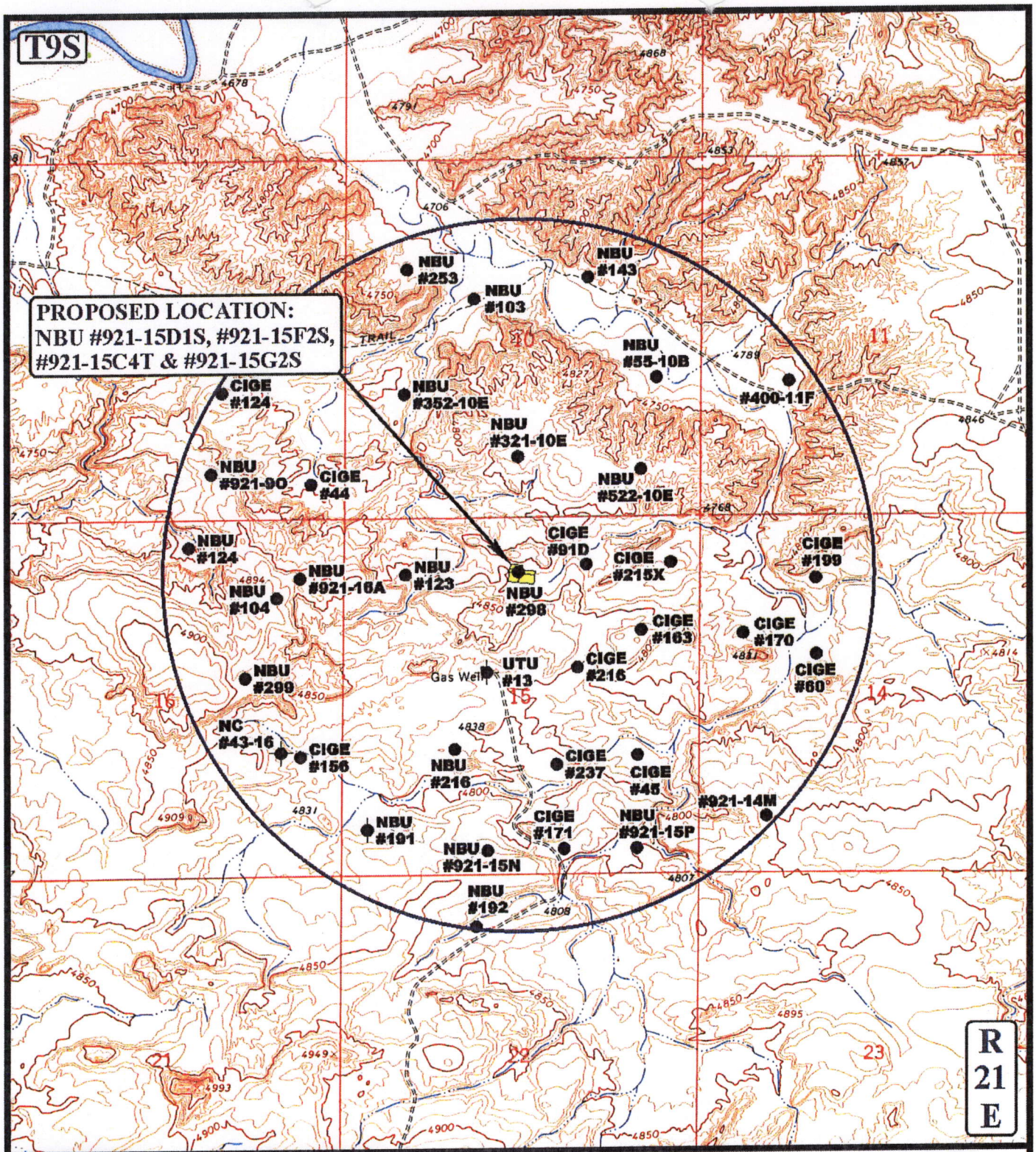
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B. &M.
N 1/2

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	20 DAY	08 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R2 1E, S.L.B.&M.
N 1/2

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	20 DAY	08 YEAR	C TOPO
SCALE: 1" = 2000'	DRAWN BY: C.C.	REVISED: 00-00-00		

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/15/2008

API NO. ASSIGNED: 43-047-40236

WELL NAME: NBU 921-15G2S
OPERATOR: KERR-MCGEE OIL & GAS (N2995)
CONTACT: KEVIN MCINTYRE

PHONE NUMBER: 720-929-6226

PROPOSED LOCATION:
NWNE 15 090S 210E
SURFACE: 0838 FNL 2631 FEL
BOTTOM: 1463 FNL 2355 FEL
COUNTY: UINTAH
LATITUDE: 40.04106 LONGITUDE: -109.5371
UTM SURF EASTINGS: 624800 NORTHINGS: 4433130
FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-01188
SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD
COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

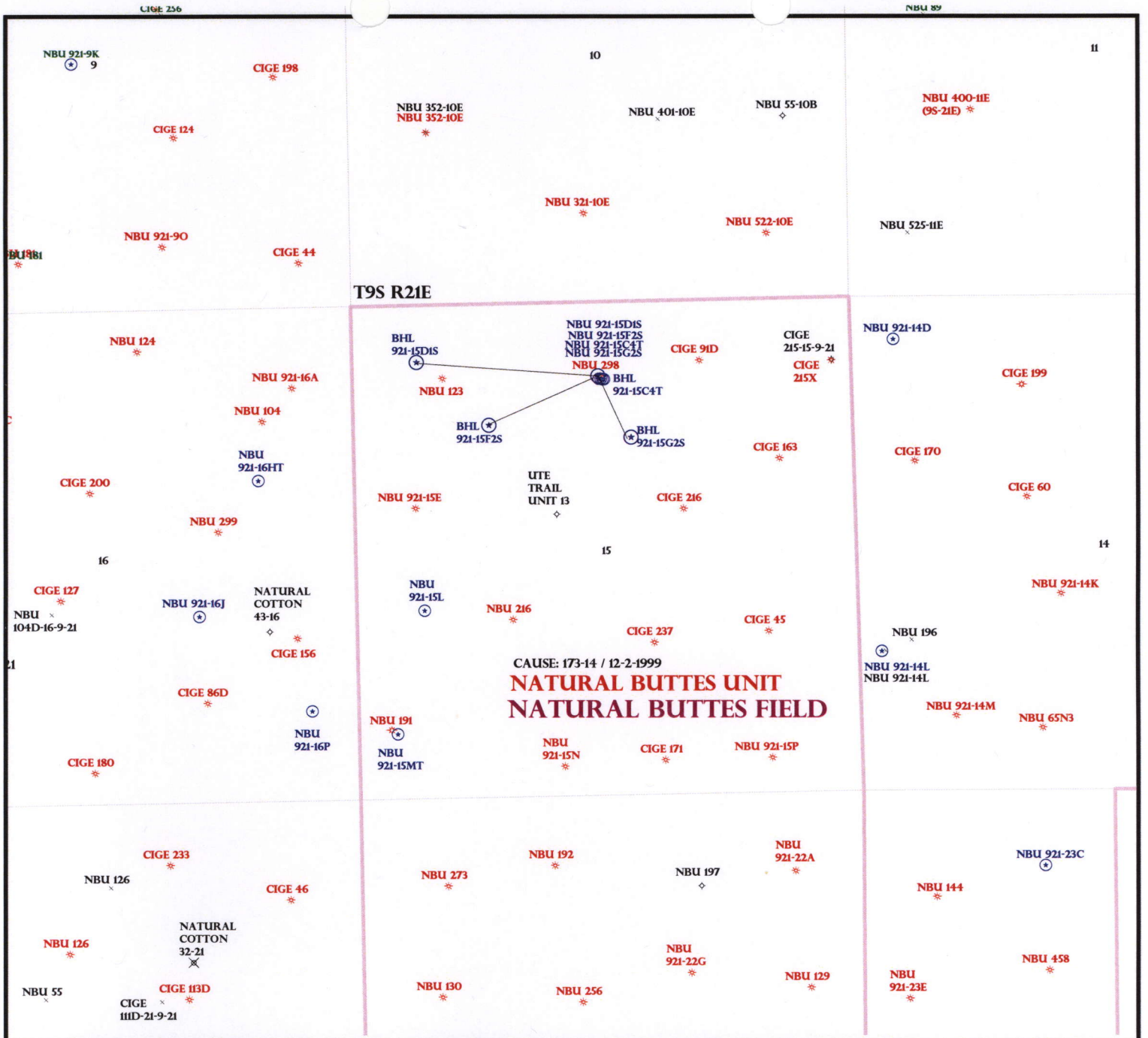
✓ Plat
✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. RLB0005239)
NA Potash (Y/N)
Y Oil Shale 190-5 (B) or 190-3 or 190-13
✓ Water Permit
(No. 43-8496)
N RDCC Review (Y/N)
(Date:)
N/A Fee Surf Agreement (Y/N)
N/A Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.
Unit: NATURAL BUTTES
___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
✓ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr u bdry & uncomm. Tracts
✓ R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1- Federal Approval
2- Oil Shale



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 15 T.9S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 18-JULY-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

July 18, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-40234	NBU 921-15F2S	Sec 15 T09S R21E 0834 FNL 2620 FWL BHL Sec 15 T09S R21E 1306 FNL 1427 FWL
43-047-40235	NBU 921-15D1S	Sec 15 T09S R21E 0832 FNL 2600 FWL BHL Sec 15 T09S R21E 0621 FNL 0671 FWL
43-047-40236	NBU 921-15G2S	Sec 15 T09S R21E 0838 FNL 2631 FEL BHL Sec 15 T09S R21E 1463 FNL 2355 FEL
43-047-40237	NBU 921-15C4T	Sec 15 T09S R21E 0836 FNL 2640 FWL BHL Sec 15 T09S R21E 0801 FNL 2590 FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-18-08

KerrMcGee

Kerr-McGee Oil & Gas Onshore LP
1999 Broadway, Suite 3700
Denver, CO 80205

July 15, 2008

Mrs. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-15G2S
T9S-R21E
Section 15: SWNE
Surface: 838' FNL, 2631' FWL
Bottom Hole: 1463' FNL, 2355' FEL
Uintah County, Utah

Dear Mrs. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 921-15G2S is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Jason K. Rayburn
Landman

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 31, 2008

Kerr-McGee Oil & Gas Onshore, LP
P O Box 173779
Denver, CO 80217-3779

Re: NBU 921-15G2S Well, Surface Location 838' FNL, 2631' FEL, NW NE, Sec. 15, T. 9 South, R. 21 East, Bottom Location 1463' FNL, 2355' FEL, SW NE, Sec. 15, T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40236.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR
OIL, GAS & MINING

Operator: Kerr-McGee Oil & Gas Onshore, LP

Well Name & Number NBU 921-15G2S

API Number: 43-047-40236

Lease: UTU-01188

Surface Location: NW NE **Sec.** 15 **T.** 9 South **R.** 21 East

Bottom Location: SW NE **Sec.** 15 **T.** 9 South **R.** 21 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   Notify the Division with 24 hours of spudding the well.

   - Contact Carol Daniels at (801) 538-5284.

   Notify the Division prior to commencing operations to plug and abandon the well.

   - Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

6 In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

Form 3160-5
(August, 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side.

5. Lease Serial No.: UTU-01188
6. If Indian, Allottee, or Tribe Name: Ute Tribe
7. If Unit or CA. Agreement Name and/or No.: 891008900A
8. Well Name and No.: NBU 921-15G2S
9. API Well No.: 43-047-40236
10. Field and Pool, or Exploratory Area: Natural Buttes
11. County or Parish, State: Uintah

1. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other
2. Name of Operator: **Kerr-McGee Oil & Gas Onshore, LP**
3a. Address: P.O. Box 173779, Denver, CO 80217-3779
3b. Phone No. *(include area code)*: 720.929.6226
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*: NW NE Sec. 15 T 9S R 21E
838 FNL 2631 FEL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/ Resume)	[ ] Water Shut-off
	[ ] Altering Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Subsequent Report	[ ] Casing Repair	[ ] New Construction	[ ] Recomplete	[ ] Other
	[X] Change Plans	[ ] Plug and abandon	[ ] Temporarily Abandon	
[ ] Final Abandonment Notice	[ ] Convert to Injection	[ ] Plug back	[ ] Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, LP, respectfully submits the following revised TOPO D for NBU 921-15G2S, per the conditions of the tribal onsite.

14. I hereby certify that the foregoing is true and correct.

Name *(Printed/ Typed)*: Kevin McIntyre
Title: Regulatory Analyst
Signature: Kevin McIntyre
Date: 10/7/08

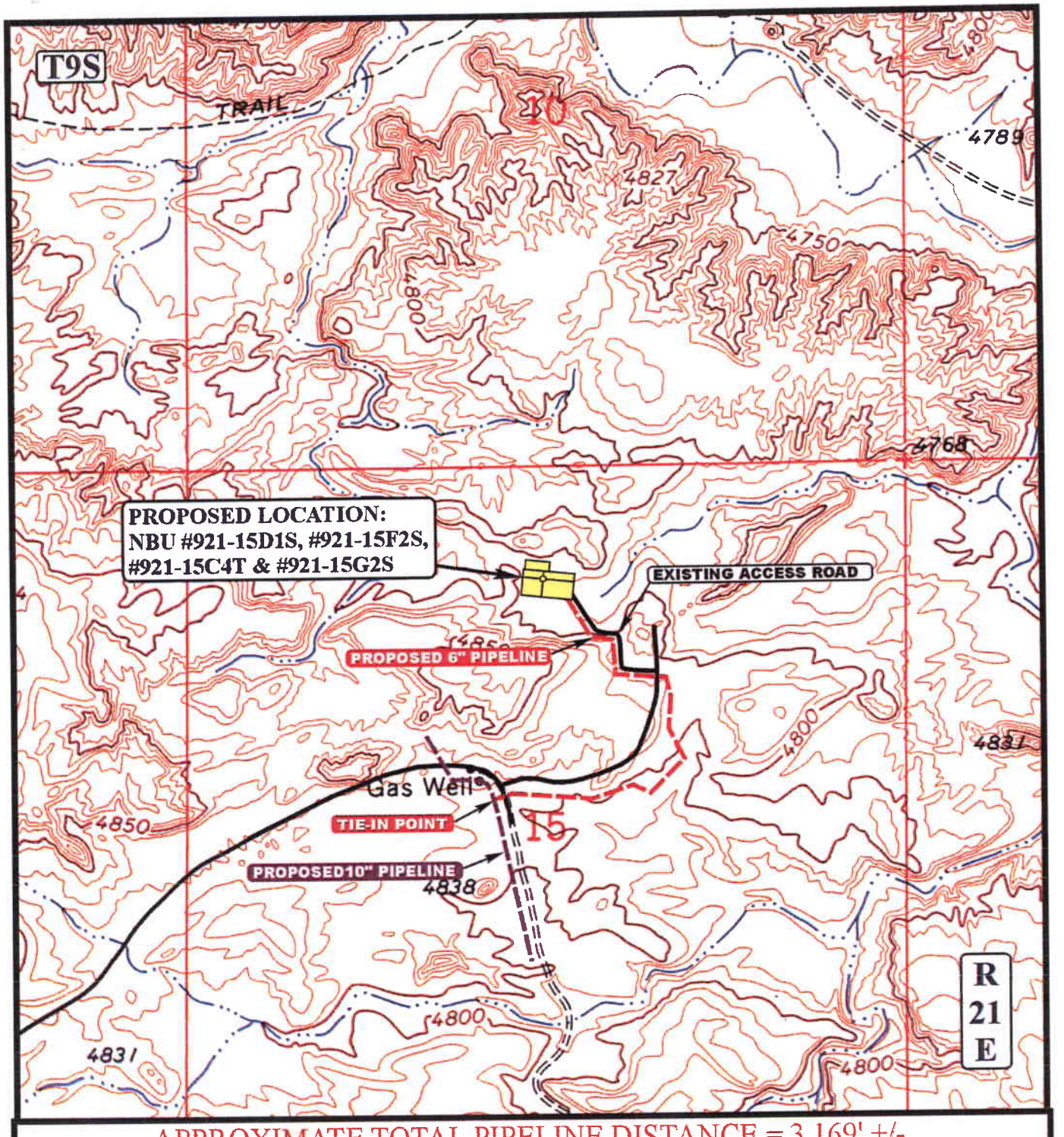
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
Title
Date
Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
OCT 08 2008
DIV. OF OIL, GAS & MINING



APPROXIMATE TOTAL PIPELINE DISTANCE = 3,169' +/-

LEGEND:

PROPOSED ACCESS ROAD

PROPOSED 6" PIPELINE

PROPOSED 10" PIPELINE (SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,
#921-15C4T & #921-15G2S
SECTION 15, T9S, R21E, S.L.B.&M.
N 1/2

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	05 MONTH	20 DAY	08 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.C.	REV. J.H. 9-10-08		

API Well No: 43047402360000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-15G2S

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047402360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0838 FNL 2631 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 15 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 7/24/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: July 23, 2009

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE		**DATE**
N/A		7/21/2009

RECEIVED July 21, 2009

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047402360000

API: 43047402360000
Well Name: NBU 921-15G2S
Location: 0838 FNL 2631 FEL QTR NWNE SEC 15 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 7/31/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 7/21/2009
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: July 23, 2009
By: Dustin Doucet

RECEIVED July 21, 2009

API Well No: 43047402360000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-15G2S

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047402360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0838 FNL 2631 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 15 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/3/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 03, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 8/3/2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047402360000

API: 43047402360000
Well Name: NBU 921-15G2S
Location: 0838 FNL 2631 FEL QTR NWNE SEC 15 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 7/31/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 8/3/2010
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, LP

Date: August 03, 2010

By:

RECEIVED August 03, 2010

RECEIVED
JUL 16 2008

RECEIVED
NOV 23 2010

Form 3160-3
(August 2007)

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU 01188

6. If Indian, Allottee or Tribe Name
Ute Tribe

7. If Unit or CA Agreement, Name and No.
891008900A

1a. Type of Work: [X] DRILL [ ] REENTER

1b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone

8. Lease Name and Well No.
NBU 921-15G2S

2. Name of Operator
Kerr-McGee Oil & Gas Onshore, LP

9. API Well No.
43-047-40236

3a. Address
PO Box 173779
Denver, CO 80217-3779

3b. Phone No. *(include area code)*
Danielle Piernot
720-929-6156

10. Field and Pool, or Exploratory
Natural Buttes Field

4. Location of well *(Report location clearly and In accordance with any State requirements.*)* NAD 83
At surface 838' FNL 2,631' FWL NE/4 NW/4 Lat. 40.041078 Long. -109.537844
At proposed prod. zone 1,463' FNL 2,355' FEL SW/4 NE/4 Sec. 15 T9S R21E

11. Sec.,T.,R.,M.,or Blk.and Survey or Area
15 T 9S R 21E S.L.B.&M.

14. Distance in miles and direction from the nearest town or post office*
Approximately 13 miles southeast of Ouray, Utah

12. County or Parish
Uintah

13. State
Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 1,463'

16. No. of acres in lease
880.00

17. Spacing Unit dedicated to this well
Unit well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ±50'

19. Proposed Depth
10,178' MD

20. BLM/ BIA Bond No. on file
WYB000291

21. Elevations (Show whether DF. RT, GR, etc.)
4,792 ' Ungraded Ground Level KB

22. Aproximate date work will start*
Upon Approval

23. Estimated duration
60-90 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by existing bond on file(see item 20 above).
5. Operator certification.
6. Such other site specific information and/ or plans as may be required by the a authorized officer.

25. Signature: Danielle Piernot
Name *(Printed/ Typed)*: Danielle Piernot
Date: November 22, 2010

Title: Regulatory Analyst I
E-mail: danielle.piernot@anadarko.com
Phone: 720-929-6156

Approved By *(Signature)*:
Name *(Printed/ Typed)*: James H. Sparger
Date: DEC 01 2010

Title: Acting Assistant Field Manager Lands & Mineral Resources
Office: VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* *(Instructions on page 2)*

RECEIVED
DEC 09 2010
DIV. OF OIL, GAS & MINING

UDOGM

NOTICE OF APPROVAL

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore, LP**	**Location:**	**NWNE, Sec. 15, T9S, R21E (S)** **SWNE, Sec. 15, T9S, R21E (B)**
Well No:	**NBU 921-15G2S**	**Lease No:**	**UTU-01188**
API No:	**43-047-40236**	**Agreement:**	**Natural Buttes Unit**

OFFICE NUMBER: (435) 781-4400
OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

Site-Specific Conditions of Approval:

1. Paint old and new facilities "Shadow Gray."
2. Move the existing pipeline off the damage area of the well pad.
3. Monitor constructions operations by a permitted paleontologist.
4. Monitor constructions operations by a permitted archaeologist.
5. In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002, a raptor survey shall be conducted prior to expansion of the well pad or pipeline upgrade if construction will take place during raptor nesting season (January 01 through September 30). If active raptor nests are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uintah Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (see Appendix D).
6. If project construction operations are not initiated before November 3, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

1. Soil erosion will be mitigated by reseeding all disturbed areas.
2. The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
3. An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
4. The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
5. A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
6. Major low water crossings will be armored with pit run material to protect them from erosion.
7. All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

8. If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
9. Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
10. Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
11. If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
12. USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
13. All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
14. If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

1. A copy of Kerr McGee's Standard Operating Practices (dated 7/17/08 and approved 7/28/08) shall be on location.

2. Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.

- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.

- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-15G2S
Qtr/Qtr NENW Section 15 Township 9S Range 21E
Lease Serial Number UO-01188
API Number 4304740236

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 06/08/2011 14:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED
JUN 08 2011
DIV. OF OIL, GAS & MINING

Date/Time 06/30/2011 00:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-15G2S

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047402360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0838 FNL 2631 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 15 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 6/8/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 06/08/2011 AT 0830 HRS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/9/2011

RECEIVED Jun. 09, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-15G2S

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047402360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0838 FNL 2631 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 15 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 6/23/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON JUNE 21, 2011. DRILLED SURFACE HOLE TO 2920'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/24/2011

RECEIVED Jun. 24, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1 NWNE

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304740236	NBU 921-15G2S	~~NENW~~	15	9S	21E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	6/8/2011	6/22/11

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 06/08/2011 AT 0830 HRS. BHL = SWNE

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304740337	NBU 921-15C4S	NENW	15	9S	21E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	6/8/2011	6/22/11

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 06/08/2011 AT 1030 HRS. BHL = NENW

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304740252	NBU 921-15C2S	NENW	15	9S	21E	UINTAH

Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date
B	99999	2900	6/8/2011	6/22/11

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 06/08/2011 AT 1300 HRS. BHL = NENW

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST
Title
6/9/2011
Date

RECEIVED
JUN 09 2011
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-15G2S

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047402360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0838 FNL 2631 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 15 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 9/10/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: RIG REL. - ACTS PIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2920' TO 10,337' ON SEPT 7, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9636'. RAN 4 ½" 11.6# P110 CSG FROM 9636' TO 10,317'. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 145 ON SEPT 10, 2011 @ 12:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/12/2011

RECEIVED Sep. 12, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01188

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-15G2S

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047402360000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0838 FNL 2631 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 15 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 10/27/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/27/2011 AT 1540 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 10/28/2011

RECEIVED Oct. 28, 2011

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU01188

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP — Contact: JAIME L. SCHARNOWSKE — E-Mail: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No. NBU 921-15G2S

3. Address PO BOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6304

9. API Well No. 43-047-40236

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NWNE 838FNL 2631FEL 40.041079 N Lat, 109.537845 W Lon

At top prod interval reported below SWNE 1442FNL 2364FEL BHL by HSM

At total depth NWNE 838FNL 2631FEL 40.041079 N Lat, 109.537845 W Lon 1475 2352

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 15 T9S R21E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, KB, RT, GL)*
06/08/2011	09/07/2011	☐ D & A ☒ Ready to Prod. 10/27/2011	4792 GL

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 10337 TVD 10278	MD 10273 TVD 10214	MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL/GR/CCL-BHV-SD/DSN/ACTR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	9.625 J-55	40.0	0	2894		575		0	
7.875	4.500 I-80	11.6	0	9636		1657		1190	
7.875	4.500 P-110	11.6	9636	10317					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9431							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	WASATCH	7514	7821	7514 TO 7821	0.360	24	OPEN
B)	MESAVERDE	8072	9960	8072 TO 9960	0.360	144	OPEN
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7514 TO 9960	PUMP 6,096 BBLS SLICK H2O & 116,078 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/27/2011	10/31/2011	24	→	0.0	1784.0	548.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. 1018 SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64		1664.0	→	0	1784	548		POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #125279 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
DEC 13 2011
DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1444
				BIRD'S NEST	1876
				MAHOGANY	2638
				WASATCH	5188
				MESAVERDE	8053

32. Additional remarks (include plugging procedure):
Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #125279 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name *(please print)* JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 12/09/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011
Project: UTAH-UINTAH	Site: NBU 921-15C PAD	Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/25/2011	End Date: 9/10/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/21/2011	11:00 - 14:00	3.00	DRLSUR	01	C	P		SKID RIG TO LAST WELL ON PAD NBU 921-15G2S
	14:00 - 15:30	1.50	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE
	15:30 - 16:00	0.50	DRLSUR	06	A	P		MAKE UP BHA AND PREP TP SPUD
	16:00 - 17:00	1.00	DRLSUR	02	C	P		SPUD WELL 12.25" HOLE DRILL F/ 40' - 228' WOB 8-20 ROT 45 - 55 DHR 96 GPM 600
	17:00 - 18:30	1.50	DRLSUR	06	A	P		TOOH INSTALL DIRECTIONAL TOOLS AND ORIENT TOOLS TO MUD MOTOR AND TIH
	18:30 - 0:00	5.50	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 228' - 800' AVE ROP 104 FT HR NO LOSSES WOB 20-22 ROT 45-55 DHR 96 GPM 600 LAST SURVEY 11.48 DEG 151.73 AZI
6/22/2011	0:00 - 5:00	5.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 800' - 1369' WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES AVE ROP 114 FT HR
	5:00 - 7:00	2.00	DRLSUR	08	A	X		WORK ON #2 PUMP CHARGE PUMP
	7:00 - 10:00	3.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 1369' - 1593 WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES AVE ROP 114 FT HR
	10:00 - 10:30	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	10:30 - 11:00	0.50	DRLSUR	07	A	P		WORK ON #2 PUMP CHARGE PUMP
	11:00 - 0:00	13.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 1593 - 2406' WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES AVE ROP 62 FT HR 11.86 DEG 161.79
6/23/2011	0:00 - 8:30	8.50	DRLSUR	02	C	P		DRILL F/ 2406' - 2920' T.D. WOB 20-22 ROT 45-55 GPM 600 AVE ROP 92 FT HR LAST SURVEY 10.85 DEG 153.99 AZI
	8:30 - 9:30	1.00	DRLSUR	05	C	P		CIRCULALATE AND CONDITION MUD PRIOR TO LDDS
	9:30 - 14:00	4.50	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING BREAK DOWN DIRECTIONAL TOOLS FOR RIG DOWN
	14:00 - 18:30	4.50	DRLSUR	12	C	P		RIG UP AND RUN 68 JOINTS 9 5/8 40# J55 SURF SHOE AT 2881 BAFFLE AT 2838'
	18:30 - 21:00	2.50	DRLSUR	12	E	P		TEST LINES TO 2500 PSI /// PUMP 25 BBL SPACER /// LEAD = 250 SX CLASS G CMT @ 3.82 YIELD & 11.0 WT // TAIL = 225 SX @ 1.15 YIELD & 15.8 WT /// DROP PLUG & DISPLACE W/ 200 BBLS WATER /// PLUG DN /// BUMP PLUG W/ 905 PSI /// FINAL LIFT = 640 PSI /// CHECK FLOATS- HELD W/ 1.15 BBL'S BACK /// FULL RETURNS THRU OUT JOB /// 45 BBLS TO SURFACE
	21:00 - 21:30	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND HANG OFF SURFACE CASING
	21:30 - 22:00	0.50	DRLSUR	12	D	P		RUN 200' OF 1" PIPE DN BACKSIDE & TOP OUT W/ 100 SX CMT @ 15.8 WT & 1.15 RELEASE RIG @ 2200
9/1/2011	23:00 - 0:00	1.00	MIRU	01	C	P		PREPARE RIG TO SKID. MOVE CATWALK. UNDO FLARE LINES AND FLOWLINE. PLACE MATTING BOARDS IN FRONT OF RIG.
9/2/2011	0:00 - 2:00	2.00	MIRU	01	C	P		SKID RIG 20' FOWARD OVER WELL BORE. SET DOWN STACK. CENTER AND LEVEL RIG. MOVE CATWALK BACK INTO PLACE. TIGHTEN GERONIMO

US ROCKIES REGION

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Event: DRILLING	Start Date: 5/25/2011		End Date: 9/10/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:00 - 3:30	1.50	MIRU	14	A	P		NIPPLE UP QUICK FLANGE. NIPPLE UP FLOW LINE TO STACK. MOVE IN FLOWLINE EXTENTION AND RIG UP.TAKE OUT SECTION OF FLARE LINES AND RECONNECT.
	3:30 - 9:00	5.50	MIRU	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST ANNULLAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. SET WEAR BUSHING WITH ID 8 1/16" ID W/ NO ABNORMAL WEAR.
	9:00 - 10:00	1.00	MIRU	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. CHANGE OUT DIES IN GRABBER BOX. CHANGE OUT SAVER SUB. SERVICE IDM. PERFORM RIG INSPECTION.
	10:00 - 11:00	1.00	MIRU	01	B	P		FINISH PUTTING CHAINS ON FLOWLINES TO SECURE FLARE LINES. AIR UP AIR BOOTS ON FLARE LINES.
	11:00 - 12:00	1.00	MAINT	08	A	Z		DURING RIG INSPECTION FOUND LOOSE BOLTS ON IDL GATE IN DERRICK. TIGHTEN BOLTS AND REWIRE.
	12:00 - 16:00	4.00	MIRU	06	A	P		MAKE UP VAREL VM616P2HR BIT (SN 4002827) ONTO 6 1/2" 5:6 LOBE 4 STAGE 1.5 BEND .23 RPG BAKER MOTOR. SCRIBE MOTOR. MAKE UP MONELS. INSTALL EM TOOL. TRIP IN HOLE. INSTALL ROT HEAD RUBBER AFTER RUNNING HWDP. TRIP IN AND TAG CEMENT 2820'.
	16:00 - 16:30	0.50	DRLPRO	02	F	P		SPUD 9/2/2011 16:00 DRILL CEMENT AND FLOAT EQUIPMENT FORM 2820'-2924'. PLUG AND BAFFLE @ 2842'. FLOAT SHOE @ 2884'. ROT @ 40 RPM 473 GPM. WOB 12 K. COLLECT RUBBER AND BAFFLE PIECES AS IT CAME OVER SHAKER.
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL SLIDE 2924'-4126' (1202',160'/HR) WOB 18-20K AVE WOB 18K, SPM 130, GPM 585, PSI ON/OFF 1350/1850, DIFF 500 , MOT RPM 134, ROT 50, TOR ON/OFF/UP 8/5/5, PU/SO/ROT 130/116/125, DRAG 5K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 45' @ 160'/HR. 4% SLIDE 96% ROT. (START DROP OUT OF SHOE) 4' FLARE OUT OF SHOE. BOP DRILL 30 SEC.
9/3/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 4126'-5126' (1000',167'/HR) WOB 18-22K AVE WOB 21K, SPM 130, GPM 585, PSI ON/OFF 1450/1900, DIFF 450 , MOT RPM 134, ROT 50, TOR ON/OFF/UP 9/5/5, PU/SO/ROT 130/116/125, DRAG 5K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 10' @ 160'/HR. 1% SLIDE 99% ROT. 3' FLARE OUT ON CONNECTIONS. TRACE OIL FROM 4100'-5126'. NO LOSSES

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 12:00	6.00	DRLPRO	02	D	P		DRILL SLIDE 5126'-5670' (544', 91'/HR) WOB 18-22K AVE WOB 21K, SPM 120, GPM 540, PSI ON/OFF 1300/1700, DIFF 400 , MOT RPM 134, ROT 50, TOR ON/OFF/UP 8/5/5, PU/SO/ROT 150/136/143, DRAG 7K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 35' @ 70'/HR. 6% SLIDE 94% ROT. 2' FLARE ON CONNECTIONS. TRACE OIL FROM GREEN RIVER ZONE. NO LOSSES
	12:00 - 16:30	4.50	DRLPRO	02	D	P		DRILL SLIDE 5670'-6025 (355',79'/HR) WOB 18-23K AVE WOB 22K, SPM 124, GPM 558, PSI ON/OFF 1400/1800, DIFF 400 , MOT RPM 128, ROT 45-50, TOR ON/OFF/UP 9/7/7, PU/SO/ROT 162/144/154, DRAG 8K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 0' . 0% SLIDE 100% ROT.
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS. SERVICE IDM.
	17:00 - 22:30	5.50	DRLPRO	02	D	P		DRILL SLIDE 6025'- 6495' (470', 85'/HR) WOB 18-25K AVE WOB 23K, SPM 130, GPM 585, PSI ON/OFF 1650/2150, DIFF 500 , MOT RPM 134, ROT 45-55, TOR ON/OFF/UP 9/5/5, PU/SO/ROT 175/148/155, DRAG 20K. CIRC RESERVE PIT WITH 8.4# WATER. SLIDE 10' @ 75'/HR. 2% SLIDE 98% ROT. LOSS FULL CIRC 6478'. MIX AND PUMP LCM SWEEP WHILE DRILLING. UNABLE TO GET RETURNS.
	22:30 - 0:00	1.50	DRLPRO	22	G	X		REDUCE PUMP SPEED TO 225. MIX AND PUMP ANOTHER GEL AND LCM SWEEP. WE REGAINED PARTIAL CIRC. SEVERAL TIMES BUT CIRC WAS LOST EVERY TIME WE INCREASED PUMP RATE TO 405 GPM FOR AN ATTEMPT AT DRILLING. THE HOLE BECAME STICKY WHILE FIGHTING LOSS CIRC. SO WE STOOD BACK 1 STAND WHERE THE HOLE WAS FREE. STARTED LIGHT MUD UP @ MIDNIGHT W/ LCM.
9/4/2011	0:00 - 1:30	1.50	DRLPRO	22	G	X		START MUD UP TO CONTROL LOSSES. RAISE LCM TO 15% TO REGAIN CIRC @ 270 GPM. LOSS 100 BBLS MUD. HOLE STILL SEEPING @ 20 BBLS HR. MUD IN 8.9/33 LCM 15%.
	1:30 - 3:30	2.00	DRLPRO	02	D	P		DRILL SLIDE 6495'-6659' (164', 82'/HR) WOB 18-25K AVE WOB 23K, SPM 105, GPM 473, PSI ON/OFF 1700/1300, DIFF 400 , MOT RPM 108, ROT 45-55, TOR ON/OFF/UP 9/5/6, PU/SO/ROT 170/152/159, DRAG 11K. MUD IN 9.0/34 LCM 15%. MUD OUT 9.1/33 LCM 15%. SLIDE 0'. 0% SLIDE 100% ROT. HOLE HEALED UP AFTER FIRST HOUR AFTER LOSSES. LOSS TOTAL 20 BBLS. (DRILLING @ ONLY 473 GPM)
	3:30 - 14:30	11.00	DRLPRO	02	D	P		DRILL SLIDE 6659'- 7276' (617',56'/HR) WOB 18-29K AVE WOB 26K, SPM 120, GPM 540, PSI ON/OFF 1650/2000, DIFF 350 , MOT RPM 124, ROT 45-55, TOR ON/OFF/UP 9/5/5, PU/SO/ROT 179/153/159, DRAG 20K. MUD IN 9.3/34 15%. MUD OUT 9.4/34 16%. SLIDE 15' @ 50'/HR. 3% SLIDE 97% ROT. ROP WAS DROPPING BELOW 30' HR AND WAS UNABLE TO GET ANY DIFFERENTIAL PRESSURE.

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	14:30 - 15:00	0.50	DRLPRO	05	C	P		MIX 11# 35 BBLS PILL AND PUMP FOR DRY JOB. NO FLOW ON FLOW CHECK.
	15:00 - 22:30	7.50	DRLPRO	06	A	P		TRIP OUT OF HOLE FOR BIT. STRAIGH PULL OF BOTTOM OF HOLE 55 K OVER. TIGHT SPOT @ 6248'. NO FLOW ON CHECKS. HOLE TAKING PROPER FLUID ON TRIP. PULL ROT HEAD RUBBER AFTER HWDP. PULL EM TOOL. BREAK BIT AND LD MUD MOTOR. BIT WAS CLEAN.
	22:30 - 0:00	1.50	DRLPRO	06		P		M/U SMITH MDI 616 BIT W/ 6/14'S ON HUNTING 1.5 BH .16 RPG. SCRIBE MOTOR AND INSTALL EM TOOLS INTO DIRECTIONAL ASSEMBLY. TRIP IN HOLE W/ HWDP AND INSTALL ROT RUBBER. TIGHTEN TURN BUCKLES.
9/5/2011	0:00 - 0:30	0.50	DRLPRO	06	A	P		TRIP IN HOLE WITH NEW BIT AND MOTOR. TRIP IN HOLE TO SHOE.
	0:30 - 1:00	0.50	DRLPRO	05	A	P		CIRC OUT GREEN RIVER GAS. 20' FLARE.
	1:00 - 4:00	3.00	DRLPRO	06	A	P		TRIP IN HOLE. NO TIGHT HOLE ON TRIP IN. FILLED PIPE @ 5000'. NO FLARE. TRIP TO BOTTOM . WASH DOWN LAST STAND. 5' FILL. NO LOSSES ON TRIP.
	4:00 - 16:00	12.00	DRLPRO	02	D	P		DRILL SLIDE 7276'-8289' (1013, 84'/HR) WOB 18-21K AVE WOB 21K, SPM 125, GPM 562, PSI ON/OFF 2450/2050, DIFF 400 , MOT RPM 129, ROT 30-45, TOR ON/OFF/UP 10/8/8, PU/SO/ROT 207/187/192, DRAG 15K. MUD IN 9.7/37 16%. MUD OUT 9.7/37 16%. SLIDE 30' @ 50'/HR. 3% SLIDE 97% ROT.
	16:00 - 16:30	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS AND ANNULLAR. SERVICE TOP DRIVE.
	16:30 - 20:30	4.00	DRLPRO	02	D	P		DRILL SLIDE 8289'-8588' (299', 75'/HR) WOB 18-23K AVE WOB 21K, SPM 125, GPM 562, PSI ON/OFF 2500/2075, DIFF 425 , MOT RPM 129, ROT 40-45, TOR ON/OFF/UP 11/8/8, PU/SO/ROT 223/190/199, DRAG 24K. MUD IN 9.8/37 15%. MUD OUT 9.8/36 16%. SLIDE 0' . 0% SLIDE 100% ROT.
	20:30 - 21:00	0.50	DRLPRO	22	G	P		LOSS PARTIAL CIRC. LOSING 80 BBLS HR. SLOWED PUMP DOWN TO 180 GPM AND STARTED INCREASING LCM %. MUD IN 9.8/37 17% LCM. MUD OUT 9.8/37 16% LCM. HOLE HEALED SLIGHTLY AND WAS ABLE TO INCREASE PUMPS TO 405 GPM WITH 20 BBL HR LOSS. MAINTAIN VOLUME WITH WATER AND INCREASE LCM WHILE DRLLING. LOSS 40 BBLS.
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL SLIDE 8588'-8756' (168', 56'/HR) WOB 18-23K AVE WOB 21K, SPM 90-105, GPM 405-473-, PSI ON/OFF 2100/1750, DIFF 350 , MOT RPM 64-76, ROT 45-55 TOR ON/OFF/UP 11/8/9, PU/SO/ROT 219/195/201, DRAG 18K. MUD IN 9.9/38 20%. MUD OUT 9.9/39 20%. SLIDE 16' @ 21'/HR . 10% SLIDE 90% ROT. LOSS 35 BBLS MUD.

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9/6/2011	0:00 - 12:00	12.00	DRLPRO	02	D	P		DRILL SLIDE 8756'- 9340' (584',49'/HR) WOB 18-23K AVE WOB 21K, SPM 105, GPM 473, PSI ON/OFF 2350/2000, DIFF 350 , MOT RPM 76, ROT 45-50 TOR ON/OFF/UP 12/9/10, PU/SO/ROT 234/193/206, DRAG 28K. MUD IN 10.6/42 20%. MUD OUT 10.7/40 20%. SLIDE 101' @ 25'/HR . 17% SLIDE 83% ROT. SLIDING TO AIM HOLE UP INTO NORTH WEST QUADRANT. NO LOSSES. (INSPECTED CSG. 6 REJECT P-110 AND 1 REJECT I-80. DRIFTED, CLEANED,TALLIED, INSPECTED AND WRAPPED THREADS AND BOXES.)
	12:00 - 17:30	5.50	DRLPRO	02	D	P		DRILL 9340'-9648' (308', 56'/HR) WOB 18-23K AVE WOB 21K, SPM 105, GPM 473, PSI ON/OFF 2400/2050, DIFF 350 , MOT RPM 76, ROT 45-50 TOR ON/OFF/UP 12/9/10, PU/SO/ROT 238/193/208, DRAG 30K. MUD IN 10.7/39 20%. MUD OUT 10.7/41 20%. SLIDE 0' . 0% SLIDE 100% ROT. 10' FLARE FRON 9640'- 9650' W/ 10.7 MUD WT. (SKIMMED OIL OFF OF RESERVE PIT.) (NO LOSSES)
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG. FUNCTION PIPE RAMS.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL 9648'-9943' (295',49'/HR) WOB 18-23K AVE WOB 21K, SPM 105, GPM 473, PSI ON/OFF 2450/2100, DIFF 350 , MOT RPM 76, ROT 40-45 TOR ON/OFF/UP 13/10/10, PU/SO/ROT 232/203/216, DRAG 16K. MUD IN 11.0/41 21%. MUD OUT 11.0/43 21%. SLIDE 0' . 0% SLIDE 100% ROTATE.(NO LOSSES.)
9/7/2011	0:00 - 9:30	9.50	DRLPRO	02	D	P		DRILL 9943'-10337' (394', 42'/HR) TD 9/7/2011 09:30.WOB 18-25K AVE WOB 23K, SPM 105, GPM 473, PSI ON/OFF 2500/2150, DIFF 350 , MOT RPM 76, ROT 40-45 TOR ON/OFF/UP 13/10/10, PU/SO/ROT 232/203/216, DRAG 16K. MUD IN 11.6/42 21%. MUD OUT 11.5/44 25%. SLIDE 0' . 0% SLIDE 100% ROTATE. HOLE STARTED SEEPING 10 BBLS HR @ 10200'. RAISED LCM TO 25% TO CONTROL LOSSES. 15 BBLS LOSS.
	9:30 - 11:30	2.00	EVALPR	05	A	P		CIRCULATE AND CONDTION HOLE. CIRC BOTTOMS UP. RAISE MUD WT TO 11.7#. MIX 35 BBL 13# PILL FOR DRY JOB AND HOLD. MUD IN 11.7/42 25%. MUD OUT 11.7/43 25%. NO LOSSES.
	11:30 - 17:30	6.00	EVALPR	06	E			PUMP AND ROT OUT 400'. PUMP DRY JOB. STAIGHT PULL OFF BOTTOM 70K OVER. NO TIGHT HOLE ON TRIP TO SHOE. NO FLOW ON FLOW CHECKS. HOLE TOOK PROPER AMOUNTS OF MUD. NO LOSSES.
	17:30 - 19:30	2.00	EVALPR	09	A	P		SLIP AND CUT DRILL LINE. 1766 TON MILES.
	19:30 - 20:00	0.50	EVALPR	05	A	P		CIRCULATE 13# PILL OUT OF PIPE AND TO SURFACE.
	20:00 - 22:00	2.00	EVALPR	06	E	P		TRIP IN HOLE 5920' NO TIGHT HOLE. GOOD DISPLACEMENT. TRANSFERED 80 BBLS OF MUD TO UPRIGHTS TO KEEP PITS FROM RUNNING OVER.

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	22:00 - 0:00	2.00	EVALPR	22	G	X		BREAK CIRCULATION AT 5920', AND LOST ALL RETURNS. LOSS 100 BBLS. KEEP PIPE IN MOTOIN AND SHUT DOWN PUMPS. TRANSFER 80 BBLS BACK INTO MUD TANKS. AND RAISED LCM TO 30%.BUILT VOLUME WITH WATER. PUMP DOWN 11# 30% LCM MUD @ 180 GPM. LOSS 35 BBLS AND REGAINED PARTIAL CIRC. (STILL LOSING 45 BBLS HR) TRIPPED IN 5 STANDS TO 100' ABOVE LOSS ZONE.
9/8/2011	0:00 - 0:30	0.50	EVALPR	22	G	X		BRIDGE @ 6200', FIGHT LOSS CIRC ABOVE BRIDGE. RAISE LCM TO 30%. AND PUMP @ 180 GPM. REGAIN FULL CIRC. INCREASED PUMP TO 270 GPM. LOSS 20 BBLS.
	0:30 - 1:00	0.50	EVALPR	02	D	P		WASH AND REAM FROM 6250'-6450'. WASH DOWN WITH 270 GPM. NO LOSSES. MUD IN 11.2/42 30%, MUD OUT 11.7/42 24% LCM.
	1:00 - 4:00	3.00	EVALPR	06	E	P		TRIP IN HOLE TO BOTTOM. NO TIGHT HOLE. GOOD DISPLACEMENT. NO FILL. ESTABLISHED GOOD CIRC. 7745'.
	4:00 - 7:30	3.50	EVALPR	05	A	P		CIRC AND CONDITION HOLE. BOTTOMS UP BROUGHT 5-25' FLARE FOR 20 MIN. FULL CIRC. EVEN OUT MUD WT TO 11.7# AND RAISE LCM TO 30% AROUND.. MUD IN 11.7/42 30% LCM. MUD OUT 11.7/43 30%. MIX 35 BBL 13.5# PILL AND HOLD FOR DRY JOB.
	7:30 - 15:30	8.00	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS. PUMP AND ROT OUT 5 STD. TO 9800'. PUMP DRY JOB. TRIP OUT WITH NO TIGHT HOLE. WELL TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER AT HWDP. PULL EM TOOL AND STAND BACK MONELS. BREAK BIT AND LD MUD MOTOR. FUNCTION BOP'S. (CHECK FLUID IN STACK FOR LOSSES OR FLOW)
	15:30 - 20:30	5.00	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALLIBURTON LOGGERS. RIG UP LOGGERS AND P/U TRIPLE COMBO TOOLS. RUN TOOLS TO 10332'. RUN REPEAT PASS AND LOG UP TO CSG DEPTH OF 2893'. RIG DOWN LOGGERS.
	20:30 - 0:00	3.50	CSG	06	D	P		TRIP IN HOLE W/ DIRECTIONAL TOOLS AND BREAK DOWN MONEL AND SUBS. MAKE UP TYPE FH21 TRICONE ON BIT SUB AND TRIP IN HOLE ON END OF HWDP. GOOD DIPSPLACEMENT. TRIPPING IN @ 2800' AT MIDNIGHT.
9/9/2011	0:00 - 5:00	5.00	CSG	06	D	P		TRIP IN HOLE TO 10337'. GOOD DISPLACEMENT THROUGH OUT. ESTABLISH GOOD CIRC 3000', AND 7100'. NO TIGHT HOLE ON TRIP.
	5:00 - 6:30	1.50	CSG	05	A	P		CIRCULATE BOTTOMS UP. 5-15' FLARE FOR 20 MIN ON BOTTOMS UP. GOOD CIRC. MUD IN 11.7/44 30%. MUD OUT 11.8/43 30%. MIX 13.2# 35 BBL PILL AND HOLD FOR DRY JOB.

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011	
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/25/2011		End Date: 9/10/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 16:00	9.50	CSG	06	D	P		PUMP OUT 4 STD. PUMP DRY JOB AND LAY DOWN DRILL STRING. HOLE TAKING PROPER FLUID. NO FLOW ON CHECKS. RUN IN HOLE W/ 7 STD OUT OF DERRICK AFTER REACHING HWDP. LAY DOWN THE REST OF THE DRILL PIPE. PULL ROT HEAD RUBBER. LAY DOWN HWDP. PULL WEAR BUSHING.
	16:00 - 17:00	1.00	CSG	12	A	P		HOLD SAFETY MEETING W/ KIMZEY CSG. REMOVE HYDRAULIC ELEVATORS. INSTALL BUTTRESS CSG QUILL ON TOP DRIVE. RIG UP CSG ELEVATORS, BACK UP TONGES AND CSG TONGES. SET UP AIR SLIPS.
	17:00 - 0:00	7.00	CSG	12	C	P		PICK UP P-110 SHOE JT, MAKE UP OPEN FLOAT SHOE AND OPEN FLOAT COLLAR WITH THREAD LOCK. RUN IN HOLE W/ 16 JTS OF 4.5", P-110, 11.6# BTC CSG FOR TOTAL OF 677'. RUN 227 JTS OF 4.5" I-80 11.6# BTC CSG. (243 JTS TOTAL). RAN 15 CENTRALIZERS FIRST 3 JTS THEN EVERY THIRD JT TILL GONE. INSTALL ROT HEAD RUBBER AFTER CENTRALIZER WERE INSTALLED. 5800'-6200' TORQUE AVERAGE. RUNNING CSG @ 6100' @ REPORT TIME. ESTABLISHED CIRC 3000' AND 6000'.
9/10/2011	0:00 - 2:30	2.50	CSG	12	C	P		RAN CSG FROM 6100'- 10316'. RAN IN HOLE W/ 16 JTS OF 4.5", P-110, 11.6# BTC CSG FOR TOTAL OF 677'. RAN 227 JTS OF 4.5" I-80 11.6# BTC CSG. (243 JTS TOTAL). RAN 15 CENTRALIZERS FIRST 3 JTS THEN EVERY THIRD JT TILL GONE. INSTALL ROT HEAD RUBBER AFTER CENTRALIZER WERE INSTALLED. SET BOTTOM FLOAT SHOE 10316' 'KB. SET TOP OF FLOAT COLLAR 10270' KB. SET TOP OF MESA VERDE MARKER JTS @ 8057' KB. SET TOP OF WASATCH MARKER JT @ 5133' KB. (PIPE STOPPED AUTO FILLING @ 2500') BREAK CIRC. 3000' AND 6000'. RIG UP BJ CEMENT HEAD.
	2:30 - 3:30	1.00	CSG	05	D	P		CIRC BOTTOMS UP @ 473 GPM. 1100 PSI. 5-12' FLARE FOR 20 MIN. RIG DOWN KIMZEY CSG. HOLD SAFETY MEETING W/ BJ SERVICES. PRIME TRUCKS. MUD 11.7/40 LCM 30%.
	3:30 - 6:30	3.00	CSG	12	E	P		RESSURE TEST TO 5000 PSI. PUMP 5 BBLS FRESH WATER AHEAD. PUMP 12 BBLS (20 SX) 10.7 PPG 3.56 YD 22.17 GAL/SK SCAVENGER CEMENT. PUMP 239 BBLS (557 SX) OF 11.7 PPG 2.50 YD 14.24 GAL/SK LEAD CEMENT. PUMP 256 BBLS (1100 SX) OF 14.3# 1.31 YD 5.41 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 159.7 BBLS OF FRESH WATER TREATED W/ CLAYCARE AND MAGNACIDE. FULL CIRC THROUGH OUT CEMENT JOB. 60 BBLS OF CONTAMINATED MUD BEFORE CEMENT. 40 BBLS OF CEMENT TO SUR W/ 10% LCM MIXED IN TILL PLUG DOWN. LIFT PSI OF 3130 @ 3 BBLS MIN. BUMP PLUG 3726 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 2 BBLS. EST. TOC FOR LEAD IS IN 13', EST TOC FOR TAIL 4500'. RIG DOWN CEMENTERS. PUMP OUT FRAC TANKS.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011	
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: ENSIGN 145/145, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/25/2011		End Date: 9/10/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 12:00	5.50	CSG	14	A	P		FLUSH WATER THROUGHPUMPS, STACK, GAS BUSTER, FLOWLINES. SET C-22 SLIPS THROUGH STACK WITH 105K. NIPPLE DOWN AND PICK UP STACK. CUT CSG AND INSTALL LOCK DOWN FLANGE. CLEAN PITS. 800 BBLS OF 11.7# MUD IN STORAGE. RELEASE RIG 9/10/2011 12:00.
	12:00 - 12:00	0.00	CSG					PRODUCTION: Rig Move/Skid start date/time:9/1/2011 23:00 Rig Move/Skid finish date/time:9/2/2011 2:00 Total MOVE hours:3.0 Prod Rig Spud date/time:9/2/2011 16:00 Rig Release date/time:9/10/2011 12:00 Total SPUD to RR hours:188.0 Planned depth MD10,191 Planned depth TVD10,113 Actual MD:10,337 Actual TVD:10,277 Open Wells AFE $: Open wells $/ft: PRODUCTION HOLE: Prod. From depth:2,924 Prod. To depth:10,337 Total PROD hours: 95 Log Depth:TRIPLE COMBO 10332 Production Casing size:4.5 P110 & 4.5 I-80 # of casing joints ran:16 JTS OF P-110, 227 JTS OF I-80 Casing set MD:10,316.0 # sx of cement:1,657 Cement blend (ppg:)SCAV 10.7,LEAD 11.7, TAIL 14.3 Cement yield (ft3/sk):SCAV 3.56 ,LEAD 2.5 TAIL 1.31 Est. TOC (Lead & Tail) or 2 Stage :,LEAD 13', TAIL 4500' Describe cement issues:FULL CIRC. 60 BBLS CONTAIMINATED MUD BEFOR CEMENT. CEMENT HAD 10% LCM FROM MUD. Describe hole issues:LOSS CIRC ZONE 6450' DIRECTIONAL INFO: KOP:365 Max angle:14.50 Departure:522.00 Max dogleg MD:6872' 2.41 DOG LEG

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-15G2S GREEN	**Wellbore No.**	OH
Well Name	NBU 921-15G2S	**Wellbore Name**	NBU 921-15G2S
Report No.	1	**Report Date**	10/20/2011
Project	UTAH-UINTAH	**Site**	NBU 921-15C PAD
Rig Name/No.	GWS 1/1	**Event**	COMPLETION
Start Date	10/20/2011	**End Date**	10/27/2011
Spud Date	6/21/2011	**Active Datum**	RKB @4,805.00usft (above Mean Sea Level)
UWI	NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

1.3 General

Contractor	CASEDHOLE SOLUTIONS	**Job Method**	PERFORATE	**Supervisor**	
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	7,514.0 (usft)-9,960.0 (usft	**Start Date/Time**	10/24/2011 12:00AM
No. of Intervals	31	**End Date/Time**	10/24/2011 12:00AM
Total Shots	0	**Net Perforation Interval**	50.00 (usft)
Avg Shot Density	0.00 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	WASATCH/			7,514.0	7,516.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	WASATCH/			7,609.0	7,611.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	WASATCH/			7,818.0	7,821.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,072.0	8,073.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,089.0	8,090.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,110.0	8,112.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,136.0	8,138.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,201.0	8,202.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,252.0	8,253.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,322.0	8,323.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,372.0	8,373.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,389.0	8,390.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,430.0	8,431.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,442.0	8,443.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,455.0	8,456.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

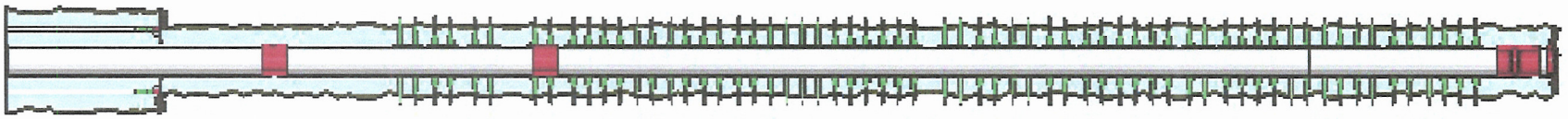
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	MESAVERDE/			8,806.0	8,808.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,890.0	8,892.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			8,945.0	8,947.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,078.0	9,080.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,210.0	9,212.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,266.0	9,268.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,298.0	9,300.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,441.0	9,443.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,577.0	9,579.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,598.0	9,600.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,628.0	9,630.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,693.0	9,694.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,727.0	9,728.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,854.0	9,855.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
10/24/2011 12:00AM	MESAVERDE/			9,944.0	9,946.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
10/24/2011 12:00AM	MESAVERDE/			9,958.0	9,960.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011	
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 10/20/2011		End Date: 10/27/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/20/2011	7:00 - 11:00	4.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 3 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 21 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 78 PSI. NO COMMUNICATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL.SWIFN
10/21/2011	7:00 - 11:00	4.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW
10/24/2011	6:45 - 7:00	0.25	COMP	48		P		RU SUPERIOR & CASED HOLE SOLUTION SAFETY MEETING HIGH PRESSURE & WIRE LINE LUBRICATORS

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011	
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 10/20/2011		End Date: 10/27/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 1)WHP 1840 PSI, BRK 4027 PSI @ 4.9 BPM. ISIP 2894 PSI, FG .73. CALC HOLES OPEN @ 47.1 BPM @ 6140 PSI = 83% HOLES OPEN. ISIP 3263 PSI, FG .77 NPI 369 PSI. MP 6495 PSI, MR 52.00 BPM, AP 6135 PSI, AR 49.9 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9660' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 2655 PSI, BRK 3318 PSI @ 4.1 BPM. ISIP 2738 PSI, FG .73 CALC HOLES OPEN @ 39.7 BPM @ 5654 PSI = 69% HOLES OPEN. ISIP 3081 PSI, FG .76 NPI 343 PSI. MP 6291 PSI, MR 50.0 BPM, AP 5869 PSI, AR 48.1 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9330' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 3)WHP 2250 PSI, BRK 3051 PSI @ 4.1 BPM. ISIP 2476 PSI, FG .71 CALC HOLES OPEN @ 42.1 BPM @ 5782 PSI = 67% HOLES OPEN. ISIP 2543 PSI, FG .72 NPI 67 PSI. MP 6424 PSI, MR 50.1 BPM, AP 6029 PSI, AR 44.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8977' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 2065 PSI, BRK 5420 PSI @ 4.8 BPM. ISIP 2302 PSI, FG .70. CALC HOLES OPEN @ 30.3 BPM @ 5254 PSI = 61% HOLES OPEN. ISIP 3190 PSI, FG .80, NPI 888 PSI. MP 6535 PSI, MR 52.0 BPM, AP 6203 PSI, AR 42.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE.X-OVER FOR W L PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN,

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011	
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 10/20/2011		End Date: 10/27/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8486' P/U PERF AS PER PERF DESIGN. POOH. SWIFN
10/25/2011	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 5)WHP 1239 PSI, BRK 3631 PSI @ 4.7 BPM. ISIP 1789 PSI, FG .65 CALC HOLES OPEN @ 49.8 BPM @ 4921 PSI = 87% HOLES OPEN. ISIP 2556 PSI, FG .74, NPI 767 PSI. MP 5334 PSI, MR 50.5 BPM, AP 4857 PSI, AR 49.9 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8232' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 6)WHP 1422 PSI, BRK 3209 PSI @ 4.5 BPM. ISIP 2433 PSI, FG .74 CALC HOLES OPEN @ 50.3 BPM @ 4356 PSI = 100% HOLES OPEN. ISIP 2555 PSI, FG .75, NPI 122 PSI. MP 5163 PSI, MR 50.7 BPM, AP 4464 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L. PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 7871' P/U PERF AS PER DESIGN. POOH, X-OVER FOR FRAC CREW. FRAC STG 7)WHP 802 PSI, BRK 3288 PSI @ 4.4 BPM. ISIP 1743 PSI, FG .76. CALC HOLES OPEN @ 50.1 BPM @ 4980 PSI = 82% HOLES OPEN. ISIP 2361 PSI, FG .75, NPI 618 PSI. MP 5355 PSI, MR 50.6 BPM, AP 4835 PSI, AR 50.2 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7464' POOH. SWI. DONE FRACING THIS WELL. TOTAL SAND = 116,078 LBS TOTAL CLFL = 6096 BBLS
10/26/2011	7:00 - 7:15	0.25	COMP	41		P		HSM
	7:15 - 17:00	9.75	COMP	44	C	P		MIRU, SPOT EQUIP, NDWH, NUBOP, PU 3 7/8" BIT, POBS, & XN SN, RIH W/ 234 JTS NEW 2 3/8" 4.7# L-80 TBG OFF TRLR TO 7416', RU PWR SWVL, SWIFN.
10/27/2011	7:00 - 7:15	0.25	COMP	48		P		HSM

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-15G2S GREEN	Spud Conductor: 6/8/2011	Spud Date: 6/21/2011	
Project: UTAH-UINTAH	Site: NBU 921-15C PAD		Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 10/20/2011		End Date: 10/27/2011
Active Datum: RKB @4,805.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/15/0/0/26/PM/N/838.00/E/0/2,631.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	COMP	44	C	P		WHP = 0 PSI. EST CIRC. PT BOP TO 3000 PSI, LOST 0 PSI IN 15 MIN. CONT TO PU 1 JT NEW 2 3/8" 4.7# L-80 TBG. TAG FILL @ 7435'. C/O 15' OF SND. CBP #1) DRLG OUT HAL 8K CBP @ 7450' IN 7 MIN. 400 DIFF PSI. RIH TAG FILL @ 7825'. C/O 25 OF SND. FCP = 50 PSI. CBP #2) DRLG OUT HAL 8K CBP @ 7850' IN 10 MIN. 500 DIFF PSI. RIH TAG FILL @ 8203'. C/O 25' OF SND. FCP = 50 PSI. CBP #3) DRLG OUT HAL 8K CBP @ 8228' IN 15 MIN. 250 DIFF PSI. RIH TAG FILL @ 8462'. C/O 20' OF SND. FCP = 75 PSI. CBP #4) DRLG OUT HAL 8K CBP @ 8482' IN 9 MIN. 400 DIFF PSI. RIH TAG FILL @ 8949'. C/O 25' OF SND. FCP = 150 PSI. CBP #5) DRLG OUT HAL 8K CBP @ 8974' IN 10 MIN. 600 DIFF PSI. RIH TAG FILL @ 9308'. C/O 20 OF SND. FCP = 200 PSI. CBP #6) DRLG OUT HAL 8K CBP @ 9328' IN 8 MIN. 900 DIFF PSI. RIH TAG FILL @ 9635'. C/O 25' OF SND. FCP = 150 PSI. CBP #7) DRLG OUT HAL 8K CBP @ 9660' IN 10 MIN. 700 DIFF PSI. RIH TO 10223' (263' BELOW BTM PERF) FCP = 100 PSI. ND PWR SWVL, NU TBG EQUIP. LD 25 JTS ON FLOAT, (30 TOTAL ON FLOAT). LND TBG ON HNGR W/ 297 JTS NEW 2 3/8" 4.7# L-80. RD FLOOR & TBG EQUIP. ND BOP, DROP BALL, NUWH. PMP OFF BIT @ 2800 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. TURN WELL OVER TO FBC. SICP-1700#, SITP- 100# RDMO,PREP TO RU ON NBU 921-15C4S. KB 13' HANGER 0.83' TBG 297 JTS = 9414.80' POBS= 2.20' XN NIPPLE @ 9428.63' EOT @ 9430.83' (327JTS DLVRD - 25 JTS RTND USED 297 JTS, TRANS 5 JTS TO NBU 921-15C4S) OLTR = 6316 BBLS WR = 1372 BBLS LLTR = 4944 BBLS

Scientific Drilling
Rocky Mountain Operations

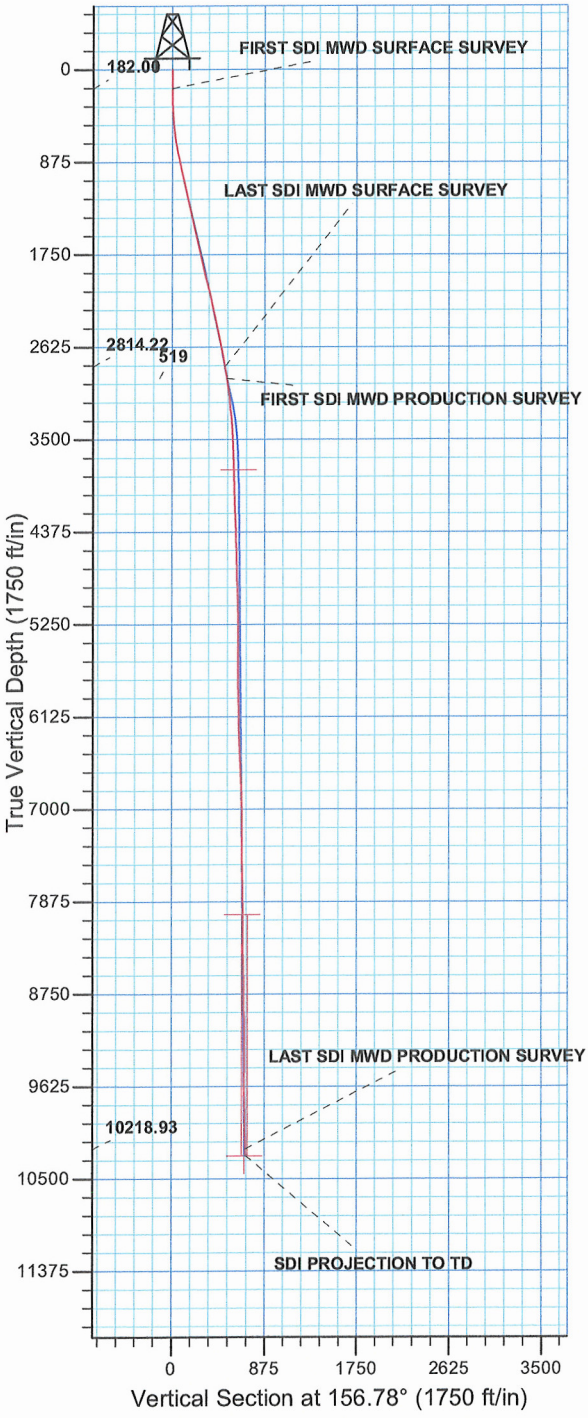
Project: Uintah County, UT UTM12
Site: NBU 921-15C PAD
Well: NBU 921-15G2S
Wellbore: OH
Design: OH

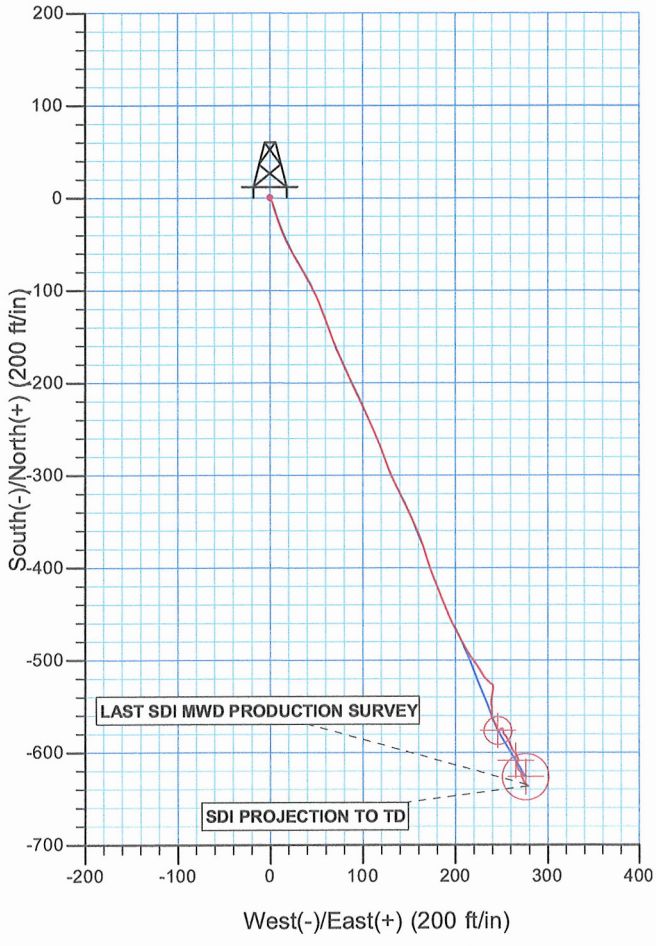
Anadarko Petroleum Corporation

WELL DETAILS: NBU 921-15G2S					
GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14544378.45	2049860.24	40° 2' 28.010 N	109° 32' 13.762 W

Azimuths to True North
Magnetic North: 11.10°

Magnetic Field
Strength: 52349.2snT
Dip Angle: 65.89°
Date: 2011/06/09
Model: IGRF2010





PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SECTION 15 T9S R21E
System Datum:	Mean Sea Level

Design: OH (NBU 921-15G2S/OH)
Created By: RobertScott Date: 9:35, September 14 2011

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-15C PAD
NBU 921-15G2S

OH

Design: OH

Standard Survey Report

14 September, 2011

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Project Uintah County, UT UTM12

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 921-15C PAD, SECTION 15 T9S R21E

Site Position:		**Northing:**	14,544,382.90 usft	**Latitude:**	40° 2' 28.061 N
From:	Lat/Long	**Easting:**	2,049,820.68 usft	**Longitude:**	109° 32' 14.269 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.94 °

Well NBU 921-15G2S, 838 FNL 2631 FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,544,378.45 usft	**Latitude:**	40° 2' 28.010 N
	+E/-W	0.00 ft	**Easting:**	2,049,860.23 usft	**Longitude:**	109° 32' 13.762 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,792.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	2011/06/09	11.10	65.89	52,349

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	156.78

Survey Program **Date** 2011/09/14

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
5.00	2,867.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,976.00	10,337.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00
182.00	0.44	321.51	182.00	0.53	-0.42	-0.66	0.25	0.25	0.00
FIRST SDI MWD SURFACE SURVEY									
273.00	0.81	126.52	273.00	0.42	-0.12	-0.44	1.36	0.41	181.33
366.00	2.77	156.25	365.95	-2.03	1.31	2.38	2.26	2.11	31.97
461.00	4.24	160.71	460.77	-7.44	3.39	8.18	1.57	1.55	4.69
556.00	6.31	163.57	555.36	-15.76	6.03	16.87	2.20	2.18	3.01
652.00	8.04	158.87	650.61	-27.09	9.94	28.81	1.90	1.80	-4.90
747.00	9.80	156.42	744.45	-40.70	15.57	43.54	1.89	1.85	-2.58

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
842.00	11.48	151.73	837.82	-56.43	23.29	61.04	1.99	1.77	-4.94
937.00	12.42	150.15	930.76	-73.62	32.85	80.61	1.05	0.99	-1.66
1,031.00	13.15	150.84	1,022.43	-91.73	43.09	101.29	0.79	0.78	0.73
1,127.00	13.09	159.73	1,115.93	-111.46	52.18	123.01	2.10	-0.06	9.26
1,222.00	14.15	159.11	1,208.26	-132.40	60.05	145.35	1.13	1.12	-0.65
1,317.00	13.84	158.55	1,300.44	-153.83	68.34	168.31	0.36	-0.33	-0.59
1,413.00	13.12	155.45	1,393.79	-174.43	77.07	190.68	1.06	-0.75	-3.23
1,508.00	12.89	155.49	1,486.36	-193.87	85.94	212.05	0.24	-0.24	0.04
1,604.00	13.08	154.47	1,579.90	-213.42	95.07	233.61	0.31	0.20	-1.06
1,698.00	13.12	156.21	1,671.46	-232.78	103.96	254.91	0.42	0.04	1.85
1,793.00	12.22	157.00	1,764.14	-251.90	112.23	275.75	0.96	-0.95	0.83
1,887.00	12.24	159.26	1,856.01	-270.38	119.65	295.65	0.51	0.02	2.40
1,982.00	13.31	159.61	1,948.66	-290.05	127.03	316.63	1.13	1.13	0.37
2,077.00	13.09	153.45	2,041.15	-309.92	135.64	338.30	1.50	-0.23	-6.48
2,173.00	12.76	153.89	2,134.72	-329.16	145.17	359.74	0.36	-0.34	0.46
2,268.00	13.14	157.63	2,227.30	-348.57	153.90	381.01	0.97	0.40	3.94
2,363.00	12.35	157.21	2,319.96	-367.92	161.94	401.97	0.84	-0.83	-0.44
2,456.00	11.86	161.79	2,410.90	-386.17	168.78	421.43	1.16	-0.53	4.92
2,551.00	10.94	160.95	2,504.02	-403.97	174.77	440.15	0.98	-0.97	-0.88
2,647.00	11.16	158.48	2,598.24	-421.22	181.16	458.52	0.54	0.23	-2.57
2,742.00	11.00	157.91	2,691.47	-438.17	187.94	476.77	0.20	-0.17	-0.60
2,835.00	10.84	156.41	2,782.79	-454.41	194.77	494.39	0.35	-0.17	-1.61
2,867.00	10.85	153.99	2,814.22	-459.87	197.30	500.41	1.42	0.03	-7.56
LAST SDI MWD SURFACE SURVEY									
2,976.00	8.81	152.28	2,921.61	-476.48	205.68	518.98	1.89	-1.87	-1.57
FIRST SDI MWD PRODUCTION SURVEY									
3,067.00	7.06	149.43	3,011.74	-487.47	211.77	531.47	1.97	-1.92	-3.13
3,157.00	5.91	146.02	3,101.16	-496.07	217.17	541.51	1.35	-1.28	-3.79
3,248.00	5.01	147.22	3,191.75	-503.30	221.94	550.03	1.00	-0.99	1.32
3,339.00	4.26	144.93	3,282.45	-509.40	226.03	557.26	0.85	-0.82	-2.52
3,429.00	3.99	146.65	3,372.21	-514.75	229.67	563.61	0.33	-0.30	1.91
3,520.00	3.87	145.16	3,463.00	-519.92	233.17	569.74	0.17	-0.13	-1.64
3,610.00	3.22	128.25	3,552.83	-523.98	236.89	574.93	1.36	-0.72	-18.79
3,701.00	2.28	141.11	3,643.73	-526.97	240.03	578.92	1.23	-1.03	14.13
3,791.00	1.01	172.85	3,733.69	-529.15	241.26	581.41	1.69	-1.41	35.27
3,882.00	1.38	188.85	3,824.67	-531.03	241.19	583.10	0.54	0.41	17.58
3,973.00	1.43	185.41	3,915.64	-533.24	240.91	585.03	0.11	0.05	-3.78
4,063.00	1.70	188.73	4,005.61	-535.68	240.60	587.15	0.32	0.30	3.69
4,154.00	1.99	192.07	4,096.56	-538.56	240.07	589.58	0.34	0.32	3.67
4,244.00	2.10	187.94	4,186.50	-541.72	239.51	592.27	0.20	0.12	-4.59
4,335.00	2.11	183.26	4,277.44	-545.04	239.19	595.20	0.19	0.01	-5.14
4,426.00	2.16	176.18	4,368.38	-548.43	239.21	598.31	0.29	0.05	-7.78
4,516.00	2.25	175.84	4,458.31	-551.88	239.45	601.58	0.10	0.10	-0.38

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,607.00	2.22	183.79	4,549.24	-555.42	239.46	604.84	0.34	-0.03	8.74
4,697.00	2.06	177.04	4,639.18	-558.78	239.43	607.91	0.33	-0.18	-7.50
4,788.00	2.02	177.11	4,730.12	-562.01	239.59	610.95	0.04	-0.04	0.08
4,879.00	1.76	137.03	4,821.08	-564.64	240.63	613.77	1.45	-0.29	-44.04
4,969.00	1.67	149.68	4,911.04	-566.78	242.23	616.37	0.43	-0.10	14.06
5,060.00	1.82	151.96	5,001.99	-569.20	243.58	619.13	0.18	0.16	2.51
5,150.00	1.82	158.69	5,091.95	-571.79	244.77	621.98	0.24	0.00	7.48
5,241.00	1.80	165.53	5,182.90	-574.52	245.65	624.84	0.24	-0.02	7.52
5,332.00	1.15	141.31	5,273.87	-576.62	246.58	627.13	0.97	-0.71	-26.62
5,422.00	1.06	37.36	5,363.86	-576.66	247.65	627.59	1.94	-0.10	-115.50
5,513.00	0.96	46.29	5,454.85	-575.47	248.71	626.91	0.20	-0.11	9.81
5,603.00	0.62	58.19	5,544.84	-574.69	249.67	626.57	0.42	-0.38	13.22
5,694.00	0.38	68.09	5,635.84	-574.32	250.37	626.51	0.28	-0.26	10.88
5,784.00	0.44	100.38	5,725.84	-574.27	250.99	626.71	0.26	0.07	35.88
5,875.00	0.44	109.69	5,816.83	-574.45	251.66	627.14	0.08	0.00	10.23
5,966.00	0.52	146.98	5,907.83	-574.91	252.21	627.78	0.35	0.09	40.98
6,056.00	0.59	169.92	5,997.83	-575.71	252.52	628.64	0.26	0.08	25.49
6,147.00	0.78	185.59	6,088.82	-576.79	252.54	629.63	0.29	0.21	17.22
6,238.00	0.92	189.18	6,179.81	-578.13	252.36	630.79	0.16	0.15	3.95
6,328.00	2.11	140.81	6,269.78	-580.12	253.29	633.00	1.83	1.32	-53.74
6,419.00	2.29	143.79	6,360.71	-582.89	255.43	636.38	0.23	0.20	3.27
6,509.00	2.32	147.08	6,450.64	-585.87	257.48	639.93	0.15	0.03	3.66
6,600.00	2.55	155.22	6,541.56	-589.25	259.33	643.77	0.46	0.25	8.95
6,691.00	2.46	158.12	6,632.47	-592.90	260.91	647.74	0.17	-0.10	3.19
6,781.00	2.73	159.35	6,722.38	-596.70	262.38	651.81	0.31	0.30	1.37
6,872.00	0.62	132.52	6,813.34	-599.06	263.51	654.43	2.41	-2.32	-29.48
6,963.00	0.79	132.98	6,904.33	-599.82	264.33	655.45	0.19	0.19	0.51
7,053.00	1.23	149.77	6,994.31	-601.08	265.27	656.98	0.58	0.49	18.66
7,144.00	0.18	2.47	7,085.31	-601.78	265.77	657.82	1.52	-1.15	-161.87
7,234.00	0.18	125.87	7,175.31	-601.72	265.89	657.81	0.35	0.00	137.11
7,324.00	0.34	149.44	7,265.31	-602.04	266.14	658.20	0.21	0.18	26.19
7,415.00	0.53	153.11	7,356.30	-602.64	266.47	658.89	0.21	0.21	4.03
7,506.00	0.81	160.15	7,447.30	-603.62	266.88	659.95	0.32	0.31	7.74
7,596.00	0.97	152.94	7,537.29	-604.90	267.44	661.34	0.22	0.18	-8.01
7,687.00	0.95	158.33	7,628.27	-606.29	268.07	662.87	0.10	-0.02	5.92
7,777.00	1.14	154.08	7,718.26	-607.79	268.73	664.51	0.23	0.21	-4.72
7,868.00	0.72	211.78	7,809.25	-609.09	268.83	665.74	1.07	-0.46	63.41
7,958.00	0.35	244.34	7,899.24	-609.69	268.28	666.07	0.52	-0.41	36.18
8,049.00	0.50	216.51	7,990.24	-610.13	267.80	666.29	0.28	0.16	-30.58
8,140.00	0.62	213.49	8,081.24	-610.86	267.29	666.76	0.14	0.13	-3.32
8,230.00	0.53	187.74	8,171.23	-611.67	266.96	667.38	0.30	-0.10	-28.61
8,321.00	0.67	168.00	8,262.23	-612.61	267.02	668.26	0.27	0.15	-21.69
8,411.00	0.97	170.11	8,352.22	-613.88	267.26	669.52	0.33	0.33	2.34
8,502.00	0.97	170.50	8,443.21	-615.40	267.52	671.02	0.01	0.00	0.43

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,593.00	1.08	160.14	8,534.19	-616.96	267.94	672.62	0.24	0.12	-11.38
8,683.00	1.19	155.40	8,624.17	-618.61	268.61	674.40	0.16	0.12	-5.27
8,774.00	1.19	132.82	8,715.16	-620.11	269.70	676.21	0.51	0.00	-24.81
8,864.00	1.23	137.12	8,805.14	-621.45	271.04	677.98	0.11	0.04	4.78
8,955.00	0.88	171.04	8,896.12	-622.86	271.82	679.57	0.77	-0.38	37.27
9,045.00	0.88	113.00	8,986.11	-623.81	272.56	680.74	0.95	0.00	-64.49
9,136.00	0.71	96.35	9,077.10	-624.15	273.76	681.52	0.31	-0.19	-18.30
9,227.00	0.12	19.29	9,168.10	-624.12	274.35	681.73	0.76	-0.65	-84.68
9,317.00	0.59	296.49	9,258.10	-623.82	273.97	681.31	0.65	0.52	-92.00
9,408.00	0.61	309.76	9,349.09	-623.31	273.18	680.52	0.15	0.02	14.58
9,498.00	0.43	308.35	9,439.09	-622.79	272.55	679.80	0.20	-0.20	-1.57
9,589.00	0.53	215.51	9,530.09	-622.92	272.03	679.72	0.77	0.11	-102.02
9,680.00	0.79	185.86	9,621.08	-623.89	271.73	680.48	0.46	0.29	-32.58
9,770.00	1.13	167.42	9,711.07	-625.37	271.86	681.90	0.51	0.38	-20.49
9,861.00	0.88	159.57	9,802.06	-626.90	272.29	683.48	0.31	-0.27	-8.63
9,951.00	1.14	155.66	9,892.04	-628.36	272.90	685.06	0.30	0.29	-4.34
10,042.00	1.41	158.74	9,983.02	-630.23	273.68	687.09	0.31	0.30	3.38
10,133.00	1.49	148.01	10,073.99	-632.28	274.72	689.37	0.31	0.09	-11.79
10,223.00	1.76	136.31	10,163.95	-634.27	276.29	691.83	0.47	0.30	-13.00
10,278.00	1.92	126.88	10,218.93	-635.43	277.61	693.42	0.62	0.29	-17.15
LAST SDI MWD PRODUCTION SURVEY									
10,337.00	1.92	126.88	10,277.89	-636.62	279.19	695.13	0.00	0.00	0.00
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
182.00	182.00	0.53	-0.42	FIRST SDI MWD SURFACE SURVEY
2,867.00	2,814.22	-459.87	197.30	LAST SDI MWD SURFACE SURVEY
2,976.00	2,921.61	-476.48	205.68	FIRST SDI MWD PRODUCTION SURVEY
10,278.00	10,218.93	-635.43	277.61	LAST SDI MWD PRODUCTION SURVEY
10,337.00	10,277.89	-636.62	279.19	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-15C PAD
NBU 921-15G2S

OH

Design: OH

Survey Report - Geographic

14 September, 2011

Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-15C PAD, SECTION 15 T9S R21E				
Site Position:		**Northing:**	14,544,382.90 usft	**Latitude:**	40° 2' 28.061 N
From:	Lat/Long	**Easting:**	2,049,820.68 usft	**Longitude:**	109° 32' 14.269 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.94 °

Well	NBU 921-15G2S, 838 FNL 2631 FWL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,544,378.45 usft	**Latitude:**	40° 2' 28.010 N
	+E/-W	0.00 ft	**Easting:**	2,049,860.23 usft	**Longitude:**	109° 32' 13.762 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,792.00 ft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	2011/06/09	11.10	65.89	52,349

Design	OH					
Audit Notes:						
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**		0.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**		
	0.00	0.00	0.00	156.78		

Survey Program **Date** 2011/09/14

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
5.00	2,867.00	Survey #1 SDI MWD SURFACE (OH)	MWD SDI	MWD - Standard ver 1.0.1
2,976.00	10,337.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,544,378.45	2,049,860.23	40° 2' 28.010 N	109° 32' 13.762 W
5.00	0.00	0.00	5.00	0.00	0.00	14,544,378.45	2,049,860.23	40° 2' 28.010 N	109° 32' 13.762 W
182.00	0.44	321.51	182.00	0.53	-0.42	14,544,378.97	2,049,859.80	40° 2' 28.016 N	109° 32' 13.767 W
FIRST SDI MWD SURFACE SURVEY									
273.00	0.81	126.52	273.00	0.42	-0.12	14,544,378.87	2,049,860.10	40° 2' 28.015 N	109° 32' 13.763 W
366.00	2.77	156.25	365.95	-2.03	1.31	14,544,376.44	2,049,861.58	40° 2' 27.990 N	109° 32' 13.745 W
461.00	4.24	160.71	460.77	-7.44	3.39	14,544,371.06	2,049,863.75	40° 2' 27.937 N	109° 32' 13.718 W
556.00	6.31	163.57	555.36	-15.76	6.03	14,544,362.78	2,049,866.52	40° 2' 27.855 N	109° 32' 13.684 W
652.00	8.04	158.87	650.61	-27.09	9.94	14,544,351.53	2,049,870.62	40° 2' 27.743 N	109° 32' 13.634 W
747.00	9.80	156.42	744.45	-40.70	15.57	14,544,338.01	2,049,876.47	40° 2' 27.608 N	109° 32' 13.561 W
842.00	11.48	151.73	837.82	-56.43	23.29	14,544,322.41	2,049,884.44	40° 2' 27.453 N	109° 32' 13.462 W

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
937.00	12.42	150.15	930.76	-73.62	32.85	14,544,305.38	2,049,894.29	40° 2' 27.283 N	109° 32' 13.339 W
1,031.00	13.15	150.84	1,022.43	-91.73	43.09	14,544,287.44	2,049,904.83	40° 2' 27.104 N	109° 32' 13.207 W
1,127.00	13.09	159.73	1,115.93	-111.46	52.18	14,544,267.86	2,049,914.24	40° 2' 26.909 N	109° 32' 13.091 W
1,222.00	14.15	159.11	1,208.26	-132.40	60.05	14,544,247.05	2,049,922.45	40° 2' 26.702 N	109° 32' 12.989 W
1,317.00	13.84	158.55	1,300.44	-153.83	68.34	14,544,225.77	2,049,931.09	40° 2' 26.490 N	109° 32' 12.883 W
1,413.00	13.12	155.45	1,393.79	-174.43	77.07	14,544,205.31	2,049,940.16	40° 2' 26.286 N	109° 32' 12.771 W
1,508.00	12.89	155.49	1,486.36	-193.87	85.94	14,544,186.01	2,049,949.35	40° 2' 26.094 N	109° 32' 12.656 W
1,604.00	13.08	154.47	1,579.90	-213.42	95.07	14,544,166.62	2,049,958.79	40° 2' 25.901 N	109° 32' 12.539 W
1,698.00	13.12	156.21	1,671.46	-232.78	103.96	14,544,147.41	2,049,968.00	40° 2' 25.709 N	109° 32' 12.425 W
1,793.00	12.22	157.00	1,764.14	-251.90	112.23	14,544,128.43	2,049,976.59	40° 2' 25.520 N	109° 32' 12.318 W
1,887.00	12.24	159.26	1,856.01	-270.38	119.65	14,544,110.07	2,049,984.31	40° 2' 25.338 N	109° 32' 12.223 W
1,982.00	13.31	159.61	1,948.66	-290.05	127.03	14,544,090.53	2,049,992.01	40° 2' 25.143 N	109° 32' 12.128 W
2,077.00	13.09	153.45	2,041.15	-309.92	135.64	14,544,070.80	2,050,000.95	40° 2' 24.947 N	109° 32' 12.017 W
2,173.00	12.76	153.89	2,134.72	-329.16	145.17	14,544,051.71	2,050,010.79	40° 2' 24.757 N	109° 32' 11.895 W
2,268.00	13.14	157.63	2,227.30	-348.57	153.90	14,544,032.45	2,050,019.84	40° 2' 24.565 N	109° 32' 11.783 W
2,363.00	12.35	157.21	2,319.96	-367.92	161.94	14,544,013.24	2,050,028.20	40° 2' 24.374 N	109° 32' 11.679 W
2,456.00	11.86	161.79	2,410.90	-386.17	168.78	14,543,995.10	2,050,035.34	40° 2' 24.193 N	109° 32' 11.591 W
2,551.00	10.94	160.95	2,504.02	-403.97	174.77	14,543,977.41	2,050,041.62	40° 2' 24.017 N	109° 32' 11.514 W
2,647.00	11.16	158.48	2,598.24	-421.22	181.16	14,543,960.26	2,050,048.28	40° 2' 23.847 N	109° 32' 11.432 W
2,742.00	11.00	157.91	2,691.47	-438.17	187.94	14,543,943.43	2,050,055.34	40° 2' 23.679 N	109° 32' 11.345 W
2,835.00	10.84	156.41	2,782.79	-454.41	194.77	14,543,927.30	2,050,062.44	40° 2' 23.519 N	109° 32' 11.257 W
2,867.00	10.85	153.99	2,814.22	-459.87	197.30	14,543,921.88	2,050,065.06	40° 2' 23.465 N	109° 32' 11.224 W
LAST SDI MWD SURFACE SURVEY									
2,976.00	8.81	152.28	2,921.61	-476.48	205.68	14,543,905.41	2,050,073.71	40° 2' 23.301 N	109° 32' 11.117 W
FIRST SDI MWD PRODUCTION SURVEY									
3,067.00	7.06	149.43	3,011.74	-487.47	211.77	14,543,894.53	2,050,079.98	40° 2' 23.192 N	109° 32' 11.038 W
3,157.00	5.91	146.02	3,101.16	-496.07	217.17	14,543,886.01	2,050,085.52	40° 2' 23.107 N	109° 32' 10.969 W
3,248.00	5.01	147.22	3,191.75	-503.30	221.94	14,543,878.87	2,050,090.41	40° 2' 23.036 N	109° 32' 10.908 W
3,339.00	4.26	144.93	3,282.45	-509.40	226.03	14,543,872.83	2,050,094.60	40° 2' 22.975 N	109° 32' 10.855 W
3,429.00	3.99	146.65	3,372.21	-514.75	229.67	14,543,867.54	2,050,098.33	40° 2' 22.922 N	109° 32' 10.808 W
3,520.00	3.87	145.16	3,463.00	-519.92	233.17	14,543,862.43	2,050,101.91	40° 2' 22.871 N	109° 32' 10.763 W
3,610.00	3.22	128.25	3,552.83	-523.98	236.89	14,543,858.43	2,050,105.70	40° 2' 22.831 N	109° 32' 10.715 W
3,701.00	2.28	141.11	3,643.73	-526.97	240.03	14,543,855.49	2,050,108.89	40° 2' 22.802 N	109° 32' 10.675 W
3,791.00	1.01	172.85	3,733.69	-529.15	241.26	14,543,853.33	2,050,110.15	40° 2' 22.780 N	109° 32' 10.659 W
3,882.00	1.38	188.85	3,824.67	-531.03	241.19	14,543,851.46	2,050,110.11	40° 2' 22.761 N	109° 32' 10.660 W
3,973.00	1.43	185.41	3,915.64	-533.24	240.91	14,543,849.24	2,050,109.87	40° 2' 22.740 N	109° 32' 10.664 W
4,063.00	1.70	188.73	4,005.61	-535.68	240.60	14,543,846.80	2,050,109.60	40° 2' 22.715 N	109° 32' 10.668 W
4,154.00	1.99	192.07	4,096.56	-538.56	240.07	14,543,843.91	2,050,109.12	40° 2' 22.687 N	109° 32' 10.674 W
4,244.00	2.10	187.94	4,186.50	-541.72	239.51	14,543,840.74	2,050,108.61	40° 2' 22.656 N	109° 32' 10.682 W
4,335.00	2.11	183.26	4,277.44	-545.04	239.19	14,543,837.41	2,050,108.34	40° 2' 22.623 N	109° 32' 10.686 W
4,426.00	2.16	176.18	4,368.38	-548.43	239.21	14,543,834.03	2,050,108.42	40° 2' 22.589 N	109° 32' 10.686 W
4,516.00	2.25	175.84	4,458.31	-551.88	239.45	14,543,830.58	2,050,108.72	40° 2' 22.555 N	109° 32' 10.682 W
4,607.00	2.22	183.79	4,549.24	-555.42	239.46	14,543,827.04	2,050,108.79	40° 2' 22.520 N	109° 32' 10.682 W
4,697.00	2.06	177.04	4,639.18	-558.78	239.43	14,543,823.68	2,050,108.81	40° 2' 22.487 N	109° 32' 10.683 W
4,788.00	2.02	177.11	4,730.12	-562.01	239.59	14,543,820.45	2,050,109.03	40° 2' 22.455 N	109° 32' 10.681 W
4,879.00	1.76	137.03	4,821.08	-564.64	240.63	14,543,817.84	2,050,110.10	40° 2' 22.429 N	109° 32' 10.667 W
4,969.00	1.67	149.68	4,911.04	-566.78	242.23	14,543,815.73	2,050,111.74	40° 2' 22.408 N	109° 32' 10.647 W
5,060.00	1.82	151.96	5,001.99	-569.20	243.58	14,543,813.33	2,050,113.13	40° 2' 22.384 N	109° 32' 10.629 W
5,150.00	1.82	158.69	5,091.95	-571.79	244.77	14,543,810.76	2,050,114.37	40° 2' 22.359 N	109° 32' 10.614 W
5,241.00	1.80	165.53	5,182.90	-574.52	245.65	14,543,808.04	2,050,115.29	40° 2' 22.332 N	109° 32' 10.603 W
5,332.00	1.15	141.31	5,273.87	-576.62	246.58	14,543,805.96	2,050,116.25	40° 2' 22.311 N	109° 32' 10.591 W
5,422.00	1.06	37.36	5,363.86	-576.66	247.65	14,543,805.93	2,050,117.33	40° 2' 22.310 N	109° 32' 10.577 W
5,513.00	0.96	46.29	5,454.85	-575.47	248.71	14,543,807.15	2,050,118.37	40° 2' 22.322 N	109° 32' 10.563 W
5,603.00	0.62	58.19	5,544.84	-574.69	249.67	14,543,807.94	2,050,119.31	40° 2' 22.330 N	109° 32' 10.551 W
5,694.00	0.38	68.09	5,635.84	-574.32	250.37	14,543,808.32	2,050,120.01	40° 2' 22.334 N	109° 32' 10.542 W

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,784.00	0.44	100.38	5,725.84	-574.27	250.99	14,543,808.38	2,050,120.62	40° 2' 22.334 N	109° 32' 10.534 W
5,875.00	0.44	109.69	5,816.83	-574.45	251.66	14,543,808.21	2,050,121.30	40° 2' 22.332 N	109° 32' 10.525 W
5,966.00	0.52	146.98	5,907.83	-574.91	252.21	14,543,807.76	2,050,121.86	40° 2' 22.328 N	109° 32' 10.518 W
6,056.00	0.59	169.92	5,997.83	-575.71	252.52	14,543,806.96	2,050,122.18	40° 2' 22.320 N	109° 32' 10.514 W
6,147.00	0.78	185.59	6,088.82	-576.79	252.54	14,543,805.89	2,050,122.21	40° 2' 22.309 N	109° 32' 10.514 W
6,238.00	0.92	189.18	6,179.81	-578.13	252.36	14,543,804.55	2,050,122.06	40° 2' 22.296 N	109° 32' 10.516 W
6,328.00	2.11	140.81	6,269.78	-580.12	253.29	14,543,802.57	2,050,123.02	40° 2' 22.276 N	109° 32' 10.504 W
6,419.00	2.29	143.79	6,360.71	-582.89	255.43	14,543,799.84	2,050,125.20	40° 2' 22.249 N	109° 32' 10.477 W
6,509.00	2.32	147.08	6,450.64	-585.87	257.48	14,543,796.89	2,050,127.30	40° 2' 22.219 N	109° 32' 10.451 W
6,600.00	2.55	155.22	6,541.56	-589.25	259.33	14,543,793.54	2,050,129.21	40° 2' 22.186 N	109° 32' 10.427 W
6,691.00	2.46	158.12	6,632.47	-592.90	260.91	14,543,789.91	2,050,130.84	40° 2' 22.150 N	109° 32' 10.407 W
6,781.00	2.73	159.35	6,722.38	-596.70	262.38	14,543,786.14	2,050,132.38	40° 2' 22.112 N	109° 32' 10.388 W
6,872.00	0.62	132.52	6,813.34	-599.06	263.51	14,543,783.80	2,050,133.55	40° 2' 22.089 N	109° 32' 10.373 W
6,963.00	0.79	132.98	6,904.33	-599.82	264.33	14,543,783.05	2,050,134.38	40° 2' 22.081 N	109° 32' 10.362 W
7,053.00	1.23	149.77	6,994.31	-601.08	265.27	14,543,781.81	2,050,135.34	40° 2' 22.069 N	109° 32' 10.350 W
7,144.00	0.18	2.47	7,085.31	-601.78	265.77	14,543,781.12	2,050,135.85	40° 2' 22.062 N	109° 32' 10.344 W
7,234.00	0.18	125.87	7,175.31	-601.72	265.89	14,543,781.18	2,050,135.97	40° 2' 22.063 N	109° 32' 10.342 W
7,324.00	0.34	149.44	7,265.31	-602.04	266.14	14,543,780.87	2,050,136.23	40° 2' 22.060 N	109° 32' 10.339 W
7,415.00	0.53	153.11	7,356.30	-602.64	266.47	14,543,780.26	2,050,136.56	40° 2' 22.054 N	109° 32' 10.335 W
7,506.00	0.81	160.15	7,447.30	-603.62	266.88	14,543,779.29	2,050,136.99	40° 2' 22.044 N	109° 32' 10.330 W
7,596.00	0.97	152.94	7,537.29	-604.90	267.44	14,543,778.02	2,050,137.57	40° 2' 22.031 N	109° 32' 10.323 W
7,687.00	0.95	158.33	7,628.27	-606.29	268.07	14,543,776.65	2,050,138.22	40° 2' 22.018 N	109° 32' 10.314 W
7,777.00	1.14	154.08	7,718.26	-607.79	268.73	14,543,775.16	2,050,138.92	40° 2' 22.003 N	109° 32' 10.306 W
7,868.00	0.72	211.78	7,809.25	-609.09	268.83	14,543,773.86	2,050,139.03	40° 2' 21.990 N	109° 32' 10.305 W
7,958.00	0.35	244.34	7,899.24	-609.69	268.28	14,543,773.25	2,050,138.50	40° 2' 21.984 N	109° 32' 10.312 W
8,049.00	0.50	216.51	7,990.24	-610.13	267.80	14,543,772.81	2,050,138.02	40° 2' 21.980 N	109° 32' 10.318 W
8,140.00	0.62	213.49	8,081.24	-610.86	267.29	14,543,772.07	2,050,137.52	40° 2' 21.972 N	109° 32' 10.324 W
8,230.00	0.53	187.74	8,171.23	-611.67	266.96	14,543,771.24	2,050,137.21	40° 2' 21.964 N	109° 32' 10.329 W
8,321.00	0.67	168.00	8,262.23	-612.61	267.02	14,543,770.31	2,050,137.28	40° 2' 21.955 N	109° 32' 10.328 W
8,411.00	0.97	170.11	8,352.22	-613.88	267.26	14,543,769.05	2,050,137.54	40° 2' 21.943 N	109° 32' 10.325 W
8,502.00	0.97	170.50	8,443.21	-615.40	267.52	14,543,767.53	2,050,137.82	40° 2' 21.928 N	109° 32' 10.321 W
8,593.00	1.08	160.14	8,534.19	-616.96	267.94	14,543,765.97	2,050,138.27	40° 2' 21.912 N	109° 32' 10.316 W
8,683.00	1.19	155.40	8,624.17	-618.61	268.61	14,543,764.34	2,050,138.97	40° 2' 21.896 N	109° 32' 10.307 W
8,774.00	1.19	132.82	8,715.16	-620.11	269.70	14,543,762.85	2,050,140.08	40° 2' 21.881 N	109° 32' 10.293 W
8,864.00	1.23	137.12	8,805.14	-621.45	271.04	14,543,761.53	2,050,141.45	40° 2' 21.868 N	109° 32' 10.276 W
8,955.00	0.88	171.04	8,896.12	-622.86	271.82	14,543,760.14	2,050,142.24	40° 2' 21.854 N	109° 32' 10.266 W
9,045.00	0.88	113.00	8,986.11	-623.81	272.56	14,543,759.20	2,050,143.00	40° 2' 21.844 N	109° 32' 10.257 W
9,136.00	0.71	96.35	9,077.10	-624.15	273.76	14,543,758.88	2,050,144.21	40° 2' 21.841 N	109° 32' 10.241 W
9,227.00	0.12	19.29	9,168.10	-624.12	274.35	14,543,758.92	2,050,144.80	40° 2' 21.841 N	109° 32' 10.234 W
9,317.00	0.59	296.49	9,258.10	-623.82	273.97	14,543,759.21	2,050,144.42	40° 2' 21.844 N	109° 32' 10.238 W
9,408.00	0.61	309.76	9,349.09	-623.31	273.18	14,543,759.72	2,050,143.62	40° 2' 21.849 N	109° 32' 10.249 W
9,498.00	0.43	308.35	9,439.09	-622.79	272.55	14,543,760.22	2,050,142.97	40° 2' 21.854 N	109° 32' 10.257 W
9,589.00	0.53	215.51	9,530.09	-622.92	272.03	14,543,760.08	2,050,142.46	40° 2' 21.853 N	109° 32' 10.263 W
9,680.00	0.79	185.86	9,621.08	-623.89	271.73	14,543,759.11	2,050,142.17	40° 2' 21.844 N	109° 32' 10.267 W
9,770.00	1.13	167.42	9,711.07	-625.37	271.86	14,543,757.63	2,050,142.33	40° 2' 21.829 N	109° 32' 10.266 W
9,861.00	0.88	159.57	9,802.06	-626.90	272.29	14,543,756.11	2,050,142.79	40° 2' 21.814 N	109° 32' 10.260 W
9,951.00	1.14	155.66	9,892.04	-628.36	272.90	14,543,754.65	2,050,143.42	40° 2' 21.799 N	109° 32' 10.252 W
10,042.00	1.41	158.74	9,983.02	-630.23	273.68	14,543,752.80	2,050,144.23	40° 2' 21.781 N	109° 32' 10.242 W
10,133.00	1.49	148.01	10,073.99	-632.28	274.72	14,543,750.77	2,050,145.30	40° 2' 21.761 N	109° 32' 10.229 W
10,223.00	1.76	136.31	10,163.95	-634.27	276.29	14,543,748.80	2,050,146.91	40° 2' 21.741 N	109° 32' 10.209 W
10,278.00	1.92	126.88	10,218.93	-635.43	277.61	14,543,747.66	2,050,148.25	40° 2' 21.729 N	109° 32' 10.192 W
LAST SDI MWD PRODUCTION SURVEY									
10,337.00	1.92	126.88	10,277.89	-636.62	279.19	14,543,746.50	2,050,149.85	40° 2' 21.718 N	109° 32' 10.171 W
SDI PROJECTION TO TD									

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-15G2S
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Site:	NBU 921-15C PAD	**MD Reference:**	GL 4972' & KB 14' @ 4806.00ft (ENSIGN 145)
Well:	NBU 921-15G2S	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
182.00	182.00	0.53	-0.42	FIRST SDI MWD SURFACE SURVEY
2,867.00	2,814.22	-459.87	197.30	LAST SDI MWD SURFACE SURVEY
2,976.00	2,921.61	-476.48	205.68	FIRST SDI MWD PRODUCTION SURVEY
10,278.00	10,218.93	-635.43	277.61	LAST SDI MWD PRODUCTION SURVEY
10,337.00	10,277.89	-636.62	279.19	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____